

Raspberry Pi With Java Programming The Internet Of Things IoT

Oracle Press

The Internet of Things Jim Hahn 2017-01-01 Drawing examples from a case study of an Internet of Things (IoT)-powered mobile application, librarian Jim Hahn demonstrates IoT uses for location-based services in libraries. The case integrates Bluetooth beacons into an undergraduate library's book stacks.

Raspberry Pi 3 Projects for Java Programmers Pradeeka Seneviratne 2017-05-31 Learn the art of building enticing projects by unleashing the potential of Raspberry Pi 3 using Java About This Book Explore the small yet powerful mini computer in order to run java applications Leverage Java libraries to build exciting projects on home automation, IoT, and Robotics by leveraging Java libraries Get acquainted with connecting electronic sensors to your Raspberry Pi 3 using Java APIs. Who This Book Is For The book is aimed at Java programmers who are eager to get their hands-on Raspberry Pi and build interesting projects using java. They have a very basic knowledge of Raspberry Pi. What You Will Learn Use presence detection using the integrated bluetooth chip Automatic light switch using presence detection Use a centralized IoT service to publish data using RPC Control a robot by driving motors using PWM Create a small web service capable of performing actions on the Raspberry Pi and supply readings Image capture using Java together with the OpenCV framework In Detail Raspberry Pi is a small, low cost and yet very powerful development platform. It is used to interact with attached electronics by the use of its GPIO pins for multiple use cases, mainly Home Automation and Robotics. Our book is a project-based guide that will show you how to utilize the Raspberry Pi's GPIO with Java and how you can leverage this utilization with your knowledge of Java. You will start with installing and setting up the necessary hardware to create a seamless development platform. You will then straightaway start by building a project that will utilize light for presence detection. Next, you will program the application, capable of handling real time data using MQTT and utilize RPC to publish data to adafruit.io. Further, you will build a wireless robot on top of the zuma chassis with the Raspberry Pi as the main controller. Lastly, you will end the book with advanced projects that will help you to create a multi-purpose IoT controller along with building a security camera that will perform image capture and recognize faces with the help of notifications. By the end of the book, you will be able to build your own real world usable projects not limited to Home Automation, IoT and/or Robotics utilizing logic, user and web interfaces. Style and approach The book will contain projects that ensure a java programmer gets started with building interesting projects using the small yet powerful Raspberry Pi 3. We will start with brushing up your Raspberry Pi skills followed by building 5-6 projects

Exploring BeagleBone Derek Molloy 2014-12-05 In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands-on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform. Comprehensive content and deep detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into communication, control, and advanced applications using C/C++, allowing you to learn at your own pace. In addition, the book's companion website features instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few; and, expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide to the device, including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux, electronics, and programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone's Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design with electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular computing platform.

Open-Source Electronics Platforms Trung Dung Ngo 2019-05-20 Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

Practical Java Programming for IoT, AI, and Blockchain Perry Xiao 2019-07-23 Learn practical uses for some of the hottest tech applications trending among technology professionals We are living in an era of digital revolution. On the horizon, many emerging digital technologies are being developed at a breathtaking speed. Whether we like it or not, whether we are ready or not, digital technologies are going to penetrate more and more, deeper and deeper, into every aspect of our lives. This is going to fundamentally change how we live, how we work, and how we socialize. Java, as a modern high-level programming language, is an excellent tool for helping us to learn these digital technologies, as well as to develop digital applications, such as IoT, AI, Cybersecurity, Blockchain and more. Practical Java Programming uses Java as a tool to help you learn these new digital technologies and to be better prepared for the future changes. Gives you a brief overview for getting started with Java Programming Dives into how you can apply your new knowledge to some of the biggest trending applications today Helps you understand how to program Java to interact with operating systems, networking, and mobile applications Shows you how Java can be used in trending tech applications such as IoT (Internet of Things), AI (Artificial Intelligence), Cybersecurity, and Blockchain Get ready to find out firsthand how Java can be used for connected home devices, healthcare, the cloud, and all the hottest tech applications.

Getting Started with the micro:bit Wolfram Donat 2017-08-24 The micro:bit, a tiny computer being distributed by the BBC to students all over the UK, is now available for anyone to purchase and play with. Its small size and low power requirements make it an ideal project platform for hobbyists and makers. You don't have to be limited by the web-based programming solutions, however: the hardware on the board is deceptively powerful, and this book will teach you how to really harness the power of the micro:bit. You'll learn about sensors, Bluetooth communications, and embedded operating systems, and along the way you'll develop an understanding of the next big thing in computers: the Internet of Things.

Building Blocks for IoT Analytics Internet-of-Things Analytics John Soldatos 2022-09-01 Internet-of-Things (IoT) Analytics are an integral element of most IoT applications, as it provides the means to extract knowledge, drive actuation services and optimize decision making. IoT analytics will be a major contributor to IoT business value in the coming years, as it will enable organizations to process and fully leverage large amounts of IoT data, which are nowadays largely underutilized. The Building Blocks of IoT Analytics is devoted to the presentation the main technology building blocks that comprise advanced IoT analytics systems. It introduces IoT analytics as a special case of BigData analytics and accordingly presents leading edge technologies that can be deployed in order to successfully confront the main challenges of IoT analytics applications. Special emphasis is paid in the presentation of technologies for IoT streaming and semantic interoperability across diverse IoT streams. Furthermore, the role of cloud computing and BigData technologies in IoT analytics are presented, along with practical tools for implementing, deploying and operating non-trivial IoT applications. Along with the main building blocks of IoT analytics systems and applications, the book presents a series of practical applications, which illustrate the use of these technologies in the scope of pragmatic applications. Technical topics discussed in the book include: Cloud Computing and BigData for IoT analytics Searching the Internet of Things Development Tools for IoT Analytics Applications IoT Analytics-as-a-

ServiceSemantic Modelling and Reasoning for IoT AnalyticsIoT analytics for Smart BuildingsIoT analytics for Smart CitiesOperationalization of IoT analyticsEthical aspects of IoT analyticsThis book contains both research oriented and applied articles on IoT analytics, including several articles reflecting work undertaken in the scope of recent European Commission funded projects in the scope of the FP7 and H2020 programmes. These articles present results of these projects on IoT analytics platforms and applications. Even though several articles have been contributed by different authors, they are structured in a well thought order that facilitates the reader either to follow the evolution of the book or to focus on specific topics depending on his/her background and interest in IoT and IoT analytics technologies. The compilation of these articles in this edited volume has been largely motivated by the close collaboration of the co-authors in the scope of working groups and IoT events organized by the Internet-of-Things Research Cluster (IERC), which is currently a part of EU's Alliance for Internet of Things Innovation (AIOTI).

Java in a Nutshell David Flanagan 1997 Java in a Nutshell, Deluxe Edition is a Java programmer's dream come true in one small package. The heart of this Deluxe Edition is the Java Reference Library on CD-ROM, which brings together five volumes for Java developers and programmers, linking related info across books. It includes: Exploring Java, 2nd Edition, Java Language Reference, 2nd Edition, Java Fundamental Classes Reference, Java AWT Reference, and Java in a Nutshell, 2nd Edition, included both on the CD-ROM and in a companion desktop edition. Java in a Nutshell, Deluxe Edition is an indispensable resource for anyone doing serious programming with Java 1.1. The Java Reference Library alone is also available by subscription on the World Wide Web. Please see <http://online-books.oreilly.com/books/javaref/> for details. The electronic text on the Web and on the CD is fully searchable and includes a complete index to all five volumes. It also includes the sample code found in the printed volumes. Exploring Java, 2nd Edition introduces the basics of Java 1.1 and offers a clear, systematic overview of the language. It covers the essentials of hot topics like Beans and RMI, as well as writing applets and other applications, such as networking programs, content and protocol handlers, and security managers. The Java Language Reference, 2nd Edition is a complete reference that describes all aspects of the Java language, including syntax, object-oriented programming, exception handling, multithreaded programming, and differences between Java and C/C++. The second edition covers the new language features that have been added in Java 1.1, such as inner classes, class literals, and instance initializers. The Java Fundamental Classes Reference provides complete reference documentation on the core Java 1.1 classes that comprise the java.lang, java.io, java.net, java.util, java.text, java.math, java.lang.reflect, and java.util.zip packages. These classes provide general-purpose functionality that is fundamental to every Java application. The Java AWT Reference provides complete reference documentation on the Abstract Window Toolkit (AWT), a large collection of classes for building graphical user interfaces in Java. Java in a Nutshell, 2nd Edition, the bestselling book on Java and the one most often recommended on the Internet, is a complete quick-reference guide to Java, containing descriptions of all of the classes in the Java 1.1 core API, with a definitive listing of all methods and variables, with the exception of the still-evolving Enterprise APIs. These APIs will be covered in a future volume. Highlights of the library include: History and principles of Java How to integrate applets into the World Wide Web A detailed look into Java's style of object-oriented programming Detailed coverage of all the essential classes in java.lang, java.io, java.util, java.net, java.awt Using threads Network programming Content and protocol handling A detailed explanation of Java's image processing mechanisms Material on graphics primitives and rendering techniques Writing a security manager System requirements: The CD-ROM is readable on all Windows and UNIX platforms. Current implementations of the Java Virtual Machine for the Mac platform do not support the Java search applet in this CD-ROM. Mac users can purchase the World Wide Web version (see <http://online-books.oreilly.com/books/javaref/> for more information). A Web browser that supports HTML 3.2, Java, and JavaScript, such as Netscape 3.0 or Internet Explorer 3.0, is required.

Mind Performance Hacks Ron Hale-Evans 2006-02-06 "Tips & tools for overclocking your brain"--Cover.

Hands-On MQTT Programming with Python Gaston C. Hillar 2018-05-22 Explore the features included in the latest versions of MQTT for IoT and M2M communications and use them with modern Python 3. Key Features Make your connected devices less prone to attackers by understanding security mechanisms Take advantage of MQTT features for IoT and Machine-to-Machine communications The only book that covers MQTT with a single language, Python Book Description MQTT is a lightweight messaging protocol for small sensors and mobile devices. This book explores the features of the latest versions of MQTT for IoT and M2M communications, how to use them with Python 3, and allow you to interact with sensors and actuators using Python. The book begins with the specific vocabulary of MQTT and its working modes, followed by installing a Mosquitto MQTT broker. You will use different utilities and diagrams to understand the most important concepts related to MQTT. You will learn to make all the necessary configuration to work with digital certificates for encrypting all data sent between the MQTT clients and the server. You will also work with the different Quality of Service levels and later analyze and compare their overheads. You will write Python 3.x code to control a vehicle with MQTT messages delivered through encrypted connections (TLS 1.2), and learn how leverage your knowledge of the MQTT protocol to build a solution based on requirements. Towards the end, you will write Python code to use the PubNub cloud-based real-time MQTT provider to monitor a surfing competition. In the end, you will have a solution that was built from scratch by analyzing the requirements and then write Python code that will run on water-proof IoT boards connected to multiple sensors in surfboards. What you will learn Learn how MQTT and its lightweight messaging system work Understand the MQTT puzzle: clients, servers (formerly known as brokers), and connections Explore the features included in the latest versions of MQTT for IoT and M2M communications Publish and receive MQTT messages with Python Learn the difference between blocking and threaded network loops Take advantage of the last will and testament feature Work with cloud-based MQTT interfaces in Python Who this book is for This book is for developers who want to learn about the MQTT protocol for their IoT projects. Prior knowledge of working with IoT and Python will be helpful.

Learn Raspberry Pi with Linux Peter Membrey 2013-02-26 Learn Raspberry Pi with Linux will tell you everything you need to know about the Raspberry Pi's GUI and command line so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi with a monitor, keyboard and mouse, and you'll discover that what may look unfamiliar in Linux is really very familiar. You'll find out how to connect to the internet, change your desktop settings, and you'll get a tour of installed applications. Next, you'll take your first steps toward being a Raspberry Pi expert by learning how to get around at the Linux command line. You'll learn about different shells, including the bash shell, and commands that will make you a true power user. Finally, you'll learn how to create your first Raspberry Pi projects: Making a Pi web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service: find out who's dropping by Making a Pi media center: stream videos and music from your Pi Raspberry Pi is awesome, and it's Linux. And it's awesome because it's Linux. But if you've never used Linux or worked at the Linux command line before, it can be a bit daunting. Raspberry Pi is an amazing little computer with tons of potential. And Learn Raspberry Pi with Linux can be your first step in unlocking that potential.

Introduction to JVM Languages Vincent van der Leun 2017-06-28 Explore the Java Virtual Machine with modern programming languages About This Book This guide provides in-depth coverage of the Java Virtual Machine and its features Filled with practical examples, this book will help you understand the core concepts of Java, Scala, Clojure, Kotlin, and Groovy Work with various programming paradigms and gain knowledge about imperative, object-oriented and functional programming Who This Book Is For This book is meant for programmers who are interested in the Java Virtual Machine (JVM) and want to learn more about the most popular programming languages that can be used for JVM development. Basic practical knowledge of a modern programming language that supports object-oriented programming (JavaScript, Python, C#, VB.NET, and C++) is assumed. What You Will Learn Gain practical information about the Java Virtual Machine Understand the popular JVM languages and the Java Class Library Get to know about various programming paradigms such as imperative, object-oriented, and functional Work with common JVM tools such as Eclipse IDE, Gradle, and Maven Explore frameworks such as SparkJava, Vert.x, Akka and JavaFX Boost your knowledge about dialects of other well-known programming languages that run on the JVM, including JavaScript, Python, and Ruby In Detail Anyone who knows software development knows about the Java Virtual Machine. The Java Virtual Machine is responsible for interpreting Java byte code and translating it into actions. In the beginning, Java was the only programming language used for the JVM. But increasing complexity of the language and the remarkable performance of the JVM created an opening for a new generation of programming languages. If you want to build a strong foundation with the Java Virtual Machine and get started with popular modern programming languages, then this book is for you. The book will begin with a general introduction of the JVM

and its features, which are common to the JVM languages, helping you get abreast with its concepts. It will then dive into explaining languages such as Java, Scala, Clojure, Kotlin, and Groovy and will show how to work with each language, their features, use cases, and pros and cons. By writing example projects in those languages and focusing on each language's strong points, it will help you find the programming language that is most appropriate for your particular needs. By the end of the book, you will have written multiple programs that run on the Java Virtual Machine and know about the differences between the various languages. **Style and approach** This practical, example-filled guide will help you get started with the JVM and some of its most popular languages.

Getting Started with Processing.py Allison Parrish 2016-05-11 Processing opened up the world of programming to artists, designers, educators, and beginners. The Processing.py Python implementation of Processing reinterprets it for today's web. This short book gently introduces the core concepts of computer programming and working with Processing. Written by the co-founders of the Processing project, Reas and Fry, along with co-author Allison Parrish, *Getting Started with Processing.py* is your fast track to using Python's Processing mode.

On Java 8 Bruce Eckel 2017-06-16

Raspberry Pi Home Automation with Arduino - Second Edition Andrew K. Dennis 2015-02-25 If you are new to the Raspberry Pi, the Arduino, or home automation and wish to develop some amazing projects using these tools, then this book is for you. Any experience in using the Raspberry Pi would be an added advantage.

Exploring Raspberry Pi Derek Molloy 2016-06-09 Expand Raspberry Pi capabilities with fundamental engineering principles Exploring Raspberry Pi is the innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project. The Raspberry Pi's most famous feature is its adaptability. It can be used for thousands of electronic applications, and using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing, controlling, and communicating with almost any component Explore advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

Raspberry Pi User Guide Eben Upton 2016-08-29 Learn the Raspberry Pi 3 from the experts! Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery.

JavaFX 2.0: Introduction by Example Carl Dea 2012-05-10 JavaFX 2.0: Introduction by Example provides a quick start to programming the JavaFX 2.0 platform. JavaFX 2.0 provides a rich set of APIs for use in creating graphically exciting client applications written solely in Java. You get a large set of customizable components that can be skinned using CSS techniques that you already know from doing web development. The platform even includes a web rendering engine enabling you to mix HTML content into your applications. Hardware acceleration means that your applications are fast and snappy, taking full advantage of modern graphics processing support at the hardware level. JavaFX 2.0 opens the door to business applications that look good, are fun to use, that take advantage of the medium to present data of all types—text, audio, video, etc.—in ways that engage the user and lead to increased productivity. Getting started with JavaFX 2.0 is surprisingly easy. You already have the Java skills. Very likely you know enough of CSS to get by. All that's left is to get a leg up on the API, and that's where JavaFX 2.0: Introduction by Example can help. In this short book, author Carl Dea takes you through a series of engaging, fun-to-work examples that bring you up to speed with the major facets of the platform. Begin with the fundamentals of installing the software and creating a simple interface. Move in progressive steps through the process of developing a working dialog box for an application. Then let the fun begin as you explore images and animations, audio and video, and finally learn to embed JavaFX applications in a web page as well as embedding HTML5 content within an application. At the end of this book you'll have a good grasp of what JavaFX is all about, and you'll be ready to begin your journey towards mastery of the platform. Entirely example-based Focused on practical applications Full of working code for you to adapt and extend

JavaFX 8: Introduction by Example Mark Heckler 2014-06-14 JavaFX 8: Introduction by Example shows you how to use your existing Java skills to create graphically exciting client applications with the JavaFX 8 platform. The book is a new and much improved edition of JavaFX 2.0: Introduction by Example, taking you through a series of engaging, fun-to-work examples that bring you up to speed on the major facets of the platform. It will help you to create applications that look good, are fun to use, and that take advantage of the medium to present data of all types in ways that engage the user and lead to increased productivity. Entirely example-based, JavaFX 8: Introduction by Example begins with the fundamentals of installing the software and creating a simple interface. From there, you'll move in progressive steps through the process of developing applications using JavaFX's standard drawing primitives. You'll then explore images, animations, media, and web. This new edition incorporates the changes resulting from the switch to Java 8 SDK. It covers advanced topics such as custom controls, JavaFX 3D, gesture devices, and embedded systems. Best of all, the book is full of working code that you can adapt and extend to all your future projects. Entirely example-based Filled with fun and practical code examples Covers all that's new in Java 8 relating to JavaFX such as Lambda expressions and Streams Covers gesture devices, 3D display, embedded systems, and other advanced topics

MQTT Essentials - A Lightweight IoT Protocol Gastón C. Hillar 2017-04-14 Send and receive messages with the MQTT protocol for your IoT solutions. About This Book Make your connected devices less prone to attackers by understanding practical security mechanisms Dive deep into one of IoT's extremely lightweight machines to enable connectivity protocol with some real-world examples Learn to take advantage of the features included in MQTT for IoT and Machine-to-Machine communications with complete real-life examples Who This Book Is For This book is a great resource for developers who want to learn more about the MQTT protocol to apply it to their individual IoT projects. Prior knowledge of working with IoT devices is essential. What You Will Learn Understand how MQTTv3.1 and v3.1.1 works in detail Install and secure a Mosquitto MQTT broker by following best practices Design and develop IoT solutions combined with mobile and web apps that use MQTT messages to communicate Explore the features included in MQTT for IoT and Machine-to-Machine communications Publish and receive MQTT messages with Python, Java, Swift, JavaScript, and Node.js Implement the security best practices while setting up the MQTT Mosquitto broker In Detail This step-by-step guide will help you gain a deep understanding of the lightweight MQTT protocol. We'll begin with the specific vocabulary of MQTT and its working modes, followed by installing a Mosquitto MQTT broker. Then, you will use best practices to secure the MQTT Mosquitto broker to ensure that only authorized clients

are able to publish and receive messages. Once you have secured the broker with the appropriate configuration, you will develop a solution that controls a drone with Python. Further on, you will use Python on a Raspberry Pi 3 board to process commands and Python on Intel Boards (Joule, Edison and Galileo). You will then connect to the MQTT broker, subscribe to topics, send messages, and receive messages in Python. You will also develop a solution that interacts with sensors in Java by working with MQTT messages. Moving forward, you will work with an asynchronous API with callbacks to make the sensors interact with MQTT messages. Following the same process, you will develop an iOS app with Swift 3, build a website that uses WebSockets to connect to the MQTT broker, and control home automation devices with HTML5, JavaScript code, Node.js and MQTT messages

Style and approach This step-by-step guide describes the MQTT protocol for your IoT projects

Hands-On Industrial Internet of Things Giacomo Veneri 2018-11-29 Build a strong and efficient IoT infrastructure at industrial and enterprise level by mastering Industrial IoT network Key Features Gain hands-on experience working with industrial architecture Explore the potential of cloud-based Industrial IoT platforms, analytics, and protocols Improve business models and transform your workforce with Industry 4.0

Book Description We live in an era where advanced automation is used to achieve accurate results. To set up an automation environment, you need to first configure a network that can be accessed anywhere and by any device. This book is a practical guide that helps you discover the technologies and use cases for Industrial Internet of Things (IIOT). Hands-On Industrial Internet of Things takes you through the implementation of industrial processes and specialized control devices and protocols. You'll study the process of identifying and connecting to different industrial data sources gathered from different sensors. Furthermore, you'll be able to connect these sensors to cloud network, such as AWS IoT, Azure IoT, Google IoT, and OEM IoT platforms, and extract data from the cloud to your devices. As you progress through the chapters, you'll gain hands-on experience in using open source Node-Red, Kafka, Cassandra, and Python. You will also learn how to develop streaming and batch-based Machine Learning algorithms. By the end of this book, you will have mastered the features of Industry 4.0 and be able to build stronger, faster, and more reliable IoT infrastructure in your Industry. What you will learn

Explore industrial processes, devices, and protocols Design and implement the I-IoT network flow Gather and transfer industrial data in a secure way Get to grips with popular cloud-based platforms Understand diagnostic analytics to answer critical workforce questions Discover the Edge device and understand Edge and Fog computing Implement equipment and process management to achieve business-specific goals Who this book is for If you're an IoT architect, developer, or stakeholder working with architectural aspects of Industrial Internet of Things, this book is for you.

Java: The Complete Reference, Tenth Edition Herbert Schildt 2017-10-06 The Definitive Java Programming Guide Supplement for key JDK 10 new features available from book's Downloads & Resources page at OraclePressBooks.com. Fully updated for Java SE 9, Java: The Complete Reference, Tenth Edition explains how to develop, compile, debug, and run Java programs. Bestselling programming author Herb Schildt covers the entire Java language, including its syntax, keywords, and fundamental programming principles. You'll also find information on key portions of the Java API library, such as I/O, the Collections Framework, the stream library, and the concurrency utilities. Swing, JavaFX, JavaBeans, and servlets are examined and numerous examples demonstrate Java in action. Of course, the new module system added by Java SE 9 is discussed in detail. This Oracle Press resource also offers an introduction to JShell, Java's new interactive programming tool. Coverage includes:

- Data types, variables, arrays, and operators
- Control statements
- Classes, objects, and methods
- Method overloading and overriding
- Inheritance
- Interfaces and packages
- Exception handling
- Multithreaded programming
- Enumerations, autoboxing, and annotations
- The I/O classes
- Generics
- Lambda expressions
- Modules
- String handling
- The Collections Framework
- Networking
- Event handling
- AWT
- Swing and JavaFX
- The Concurrent API
- The Stream API
- Regular expressions
- JavaBeans
- Servlets

Much, much more Code examples in the book are available for download at www.OraclePressBooks.com. TAG: For a complete list of Oracle Press titles, visit www.OraclePressBooks.com.

Developing Inclusive Mobile Apps Rob Whitaker 2020-04-25 By failing to consider those with needs different to ourselves, we are telling these people they are not welcome in our app, and therefore that technology as a whole, is not for them. This is not hyperbole—23% of people in the US with a registered disability aren't online at all, that's three times more likely than the general population. When asked why they're not online, disabled respondents say their disability prevents them or that using the internet is too hard. To help your apps combat the issue of digital exclusion, this book covers considerations and tools mobile developers, or anyone creating mobile experiences, can use to make mobile work better for those with disabilities—mental or physical—and how to create a better experience for everyone. Software is not made up of cold, unthinking algorithms. Software is a craft in the truest sense of the word, and one of the greatest tools you can have as a craftsman is empathy for the people who will be using your app. Each one of whom is an individual with different abilities, experiences, knowledge, and circumstances. What You'll Learn Create mobile experiences that work for as many people as possible Incorporate a worldview of accessibility and customer service into your design Work with accessibility tools and techniques commonly available for developers Who This Book Is For Mobile developers working solo or as part of a team. UX designers, quality engineers, product owners, and anybody working in mobile.

Beginning J2EE 1.4 James Weaver 2008-01-01 *This book is more than simply a reprint of material already freely available on the Web (I'm looking at you, The J2EE Tutorial). * Concentrates on the parts of J2EE that readers find most interesting, accessible, and relevant for the start of their professional career - JSP and Servlets, rather than in depth coverage of EJB—helps reader accomplish something and may spark interest for further exploration of J2EE. * This title will concentrate on web development (using JSP and Servlets) but still be aimed at programmers who want to become J2EE developers - so it will be a title for the Java category, not JavaServer Pages.

Raspberry Pi Super Cluster Andrew K. Dennis 2013-11-20 This book follows a step-by-step, tutorial-based approach which will teach you how to develop your own super cluster using Raspberry Pi computers quickly and efficiently. Raspberry Pi Super Cluster is an introductory guide for those interested in experimenting with parallel computing at home. Aimed at Raspberry Pi enthusiasts, this book is a primer for getting your first cluster up and running. Basic knowledge of C or Java would be helpful but no prior knowledge of parallel computing is necessary.

OCA Java SE 8 Programmer I Study Guide (Exam 1Z0-808) Edward G. Finegan 2015-09-11 The official study guide for the entry-level Oracle Certified Associate exam for Java Programmers—fully updated for Java SE 8 Confidently prepare for the OCA Java SE 8 Programmer I exam with this thoroughly revised, up-to-date guide from Oracle Press. Featuring step-by-step exercises, comprehensive chapter self-tests, and two complete downloadable practice exams, this volume provides an integrated, easy-to-follow study system based on a proven methodology. OCA Java SE 8 Programmer I Study Guide (Exam 1Z0-808) offers the most complete and in-depth coverage of all of the exam objectives, and also serves as an essential on-the-job reference for Java developers. You'll have access to a total of more than 250 challenging practice questions that precisely mirror the content of the live exam—no other guide on the market provides the same level of accuracy and detail. Questions accurately simulate the type and style of questions found on the actual test Includes special "Exam Watch," "Inside the Exam," and "On the Job" sections Downloadable MAC and PC compatible test engine includes two complete practice exams

The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black Donald Norris 2015-01-30 Build and program projects that tap into the Internet of Things (IoT) using Arduino, Raspberry Pi, and BeagleBone Black! This innovative guide gets you started right away working with the most popular processing platforms, wireless communication technologies, the Cloud, and a variety of sensors. You'll learn how to take advantage of the utility and versatility of the IoT and connect devices and systems to the Internet using sensors. Each project features a list of the tools and components, how-to explanations with photos and illustrations, and complete programming code. All projects can be modified and expanded, so you can build on your skills. The Internet of Things: DIY Projects with Arduino, Raspberry Pi, and BeagleBone Black Covers the basics of Java, C#, Python, JavaScript, and other programming languages used in the projects Shows you how to use IBM's Net Beans IDE and the Eclipse IDE Explains how to set up small-scale networks to connect the projects to the Internet Includes essential tips for setting up and using a MySQL database. The fun, DIY projects in the book include: Raspberry Pi home temperature measurements Raspberry Pi surveillance webcams Raspberry Pi home weather station Arduino garage door controller Arduino irrigation controller Arduino outdoor lighting controller Beaglebone message panel Beaglebone remote control SDR Machine-to-machine demonstration project

The Internet of Things Pethuru Raj 2017-02-24 As more and more devices become interconnected through the Internet of Things (IoT), there is an even greater need for this book, which explains the technology, the networking, and applications that are making IoT an everyday reality. The book begins with a discussion of IoT "ecosystems" and the technology that enables them, which includes: Wireless Infrastructure and Service Discovery Protocols Integration Technologies and Tools Application and Analytics Enablement Platforms A chapter on next-generation cloud infrastructure explains hosting IoT platforms and applications. A chapter on data analytics throws light on IoT data collection, storage, translation, real-time processing, mining, and analysis, all of which can yield actionable insights from the data collected by IoT applications. There is also a chapter on edge/fog computing. The second half of the book presents various IoT ecosystem use cases. One chapter discusses smart airports and highlights the role of IoT integration. It explains how mobile devices, mobile technology, wearables, RFID sensors, and beacons work together as the core technologies of a smart airport. Integrating these components into the airport ecosystem is examined in detail, and use cases and real-life examples illustrate this IoT ecosystem in operation. Another in-depth look is on envisioning smart healthcare systems in a connected world. This chapter focuses on the requirements, promising applications, and roles of cloud computing and data analytics. The book also examines smart homes, smart cities, and smart governments. The book concludes with a chapter on IoT security and privacy. This chapter examines the emerging security and privacy requirements of IoT environments. The security issues and an assortment of surmounting techniques and best practices are also discussed in this chapter.

OCA: Oracle Certified Associate Java SE 8 Programmer I Study Guide Jeanne Boyarsky 2014-12-31 Full coverage of functional programming and all OCA Java Programmer exam objectives OCA, Oracle Certified Associate Java SE 8 Programmer I Study Guide, Exam 1Z0-808 is a comprehensive study guide for those taking the Oracle Certified Associate Java SE 8 Programmer I exam (1Z0-808). With complete coverage of 100% of the exam objectives, this book provides everything you need to know to confidently take the exam. The release of Java 8 brought the language's biggest changes to date, and for the first time, candidates are required to learn functional programming to pass the exam. This study guide has you covered, with thorough functional programming explanation and information on all key topic areas Java programmers need to know. You'll cover Java inside and out, and learn how to apply it efficiently and effectively to create solutions applicable to real-world scenarios. Work confidently with operators, conditionals, and loops Understand object-oriented design principles and patterns Master functional programming fundamentals

Raspberry Pi with Java: Programming the Internet of Things (IoT) (Oracle Press) Stephen Chin 2015-10-23 Use Raspberry Pi with Java to create innovative devices that power the internet of things! Raspberry Pi with Java: Programming the Internet of Things (IoT) fills an important gap in knowledge between seasoned Java developers and embedded-hardware gurus, taking a project-based approach to skills development from which both hobbyists and professionals can learn. By starting with simple projects based on open-source libraries such as Pi4J, hobbyists can get immediate results without a significant investment in time or hardware. Later projects target simplified industrial use cases where professionals can start to apply their skills to practical problems in the fields of home automation, healthcare, and robotics. This progression prepares you to be an active participant in the IoT revolution that is reshaping our lives. For the hobbyist: Hardware used in projects is affordable and easily accessible Follows a project-based learning approach with a gradual learning curve Projects are based on open-source code repositories with commercial friendly licenses For the professional computer engineer: Uses an industry-standard platform that allows for high performance, secure, production-ready applications Introduces Java SE Embedded for large devices and Java ME Embedded for small devices Code is portable to a wide variety of ARM and MIPS based platforms Provides practical skill development with advanced projects in the fields of home automation, healthcare, and robotics

Implementation Patterns Kent Beck 2007-10-23 Software Expert Kent Beck Presents a Catalog of Patterns Infinitely Useful for Everyday Programming Great code doesn't just function: it clearly and consistently communicates your intentions, allowing other programmers to understand your code, rely on it, and modify it with confidence. But great code doesn't just happen. It is the outcome of hundreds of small but critical decisions programmers make every single day. Now, legendary software innovator Kent Beck—known worldwide for creating Extreme Programming and pioneering software patterns and test-driven development—focuses on these critical decisions, unearthing powerful "implementation patterns" for writing programs that are simpler, clearer, better organized, and more cost effective. Beck collects 77 patterns for handling everyday programming tasks and writing more readable code. This new collection of patterns addresses many aspects of development, including class, state, behavior, method, collections, frameworks, and more. He uses diagrams, stories, examples, and essays to engage the reader as he illuminates the patterns. You'll find proven solutions for handling everything from naming variables to checking exceptions.

Internet of Things Bharat Bhusan 2022-04-28 Today, Internet of Things (IoT) is ubiquitous as it is applied in practice in everything from Industrial Control Systems (ICS) to e-Health, e-commerce, Cyber Physical Systems (CPS), smart cities, smart parking, healthcare, supply chain management and many more. Numerous industries, academics, alliances and standardization organizations make an effort on IoT standardization, innovation and development. But there is still a need for a comprehensive framework with integrated standards under one IoT vision. Furthermore, the existing IoT systems are vulnerable to huge range of malicious attacks owing to the massive numbers of deployed IoT systems, inadequate data security standards and the resource-constrained nature. Existing security solutions are insufficient and therefore it is necessary to enable the IoT devices to dynamically counter the threats and save the system. Apart from illustrating the diversified IoT applications, this book also addresses the issue of data safekeeping along with the development of new security-enhancing schemes such as blockchain, as well as a range of other advances in IoT. The reader will discover that the IoT facilitates a multidisciplinary approach dedicated to create novel applications and develop integrated solutions to build a sustainable society. The innovative and fresh advances that demonstrate IoT and computational intelligence in practice are discussed in this book, which will be helpful and informative for scientists, research scholars, academicians, policymakers, industry professionals, government organizations and others. This book is intended for a broad target audience, including scholars of various generations and disciplines, recognized scholars (lecturers and professors) and young researchers (postgraduate and undergraduates) who study the legal and socio-economic consequences of the emergence and dissemination of digital technologies such as IoT. Furthermore, the book is intended for researchers, developers and operators working in the field of IoT and eager to comprehend the vulnerability of the IoT paradigm. The book will serve as a comprehensive guide for the advanced-level students in computer science who are interested in understanding the severity and implications of the accompanied security issues in IoT. Dr. Bharat Bhusan is an Assistant Professor of Department of Computer Science and Engineering (CSE) at School of Engineering and Technology, Sharda University, Greater Noida, India. Prof. (Dr.) Sudhir Kumar Sharma is currently a Professor and Head of the Department of Computer Science, Institute of Information Technology & Management affiliated to GGSIPU, New Delhi, India. Prof. (Dr.) Bhuvan Unhelkar (BE, MDBA, MSc, PhD; FACS; PSM-I, CBAP®) is an accomplished IT professional and Professor of IT at the University of South Florida, Sarasota-Manatee (Lead Faculty). Dr. Muhammad Fazal Ijaz is working as an Assistant Professor in Department of Intelligent Mechatronics Engineering, Sejong University, Seoul, Korea. Prof. (Dr.) Lamia Karim is a professor of computer science at the National School of Applied Sciences Berrechid (ENSAB), Hassan 1st University.

Learning Raspberry Pi Samarth Shah 2015-04-24 If you have a passion for technology and want to explore the world of Raspberry Pi, then this book provides you with all the tools and information you are looking for. Although being familiar with basic programming concepts is useful, you can still learn a lot from this book as a wide variety of topics are covered.

Holub on Patterns Allen Holub 2004-09-27 * Allen Holub is a highly regarded instructor for the University of California, Berkeley, Extension. He has taught since 1982 on various topics, including Object-Oriented Analysis and Design, Java, C++, C. Holub will use this book in his Berkeley Extension classes. * Holub is a regular presenter at the Software Development conferences and is Contributing Editor for the online magazine JavaWorld, for whom he writes the Java Toolbox. He also wrote the OO Design Process column for IBM DeveloperWorks. * This book is not time-sensitive. It is an extremely well-thought out approach to learning design patterns, with Java as the example platform, but the concepts presented are not limited to just Java programmers. This is a complement to the Addison-Wesley seminal "Design Patterns" book by the "Gang of Four".

OCP Java SE 8 Programmer II Exam Guide (Exam 1Z0-809) Kathy Sierra 2018-05-11 A Complete, Integrated Study System for OCP Exam

1Z0-809 Study for the OCP Java SE 8 Programmer II exam using this effective exam preparation guide from Oracle Press. Written by a team of experts, including two developers of the original exam, OCP Java SE 8 Programmer II Exam Guide (Exam 1Z0-809) offers comprehensive coverage of every subject on the test and lays out essential Java programming skills. Throughout, step-by-step exercises; self-tests; and “Exam Watch,” “Inside the Exam,” and “On the Job” sections highlight salient points and aid in learning. In all, the book and accompanying digital content feature more than 350 practice questions that mirror those on the live test in tone, format, and content. Clearly explains every topic on Exam 1Z0-809, including:

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Python 3 Image Processing Pajankar Ashwin 2019-09-20 Gain a working knowledge of practical image processing and with scikit-image. Key features Comprehensive coverage of various aspects of scientific Python and concepts in image processing. Covers various additional topics such as Raspberry Pi, conda package manager, and Anaconda distribution of Python. Simple language, crystal clear approach, and straight forward comprehensible presentation of concepts followed by code examples and output screenshots. Adopting user-friendly style for explanation of code examples. Description The book has been written in such a way that the concepts are explained in detail, giving adequate emphasis on code examples. To make the topics more comprehensive, screenshots and code samples are furnished extensively throughout the book. The book is conceptualized and written in such a way that the beginner readers will find it very easy to understand the concepts and implement the programs. The book also features the most current version of Raspberry Pi and associated software with it. This book teaches novice beginners how to write interesting image processing programs with scientific Python ecosystem. The book will also be helpful to experienced professionals to make transition to rewarding careers in scientific Python and computer vision. What will you learn Raspberry Pi, Python 3 Basics Scientific Python Ecosystem NumPy and Matplotlib Visualization with Matplotlib Basic NumPy, Advanced Image Processing with NumPy and Matplotlib Getting started with scikit-image Thresholding, Histogram Equalization, and Transformations Kernels, Convolution, and Filters Morphological Operations and Image Restoration Noise Removal and Edge Detection Advanced Image Processing Operations Who this book is for Students pursuing BE/BSc/ME/MSc/BTech/MTech in Computer Science, Electronics, Electrical, and Mathematics Python enthusiasts Computer Vision and Image Processing professionals Anyone fond of tinkering with Raspberry Pi Researchers in Computer Vision Table of contents 1. Concepts in Image Processing 2. Installing Python 3 on Windows 3. Introduction to Raspberry Pi 4. Python 3 Basics 5. Introduction to the Scientific Python Ecosystem 6. Introduction to NumPy and Matplotlib 7. Visualization with Matplotlib 8. Basic Image Processing with NumPy and Matplotlib 9. Advanced Image Processing with NumPy and Matplotlib 10. Getting Started with Scikit-Image 11. Thresholding Histogram Equalization and Transformations 12. Kernels, Convolution and Filters 13. Morphological Operations and Image Restoration 14. Noise Removal and Edge Detection 15. Advanced Image Processing Operations 16. Wrapping Up About the author Ashwin Pajankar is a polymath. He has more than two decades of programming experience. He is a Science Popularizer, a Programmer, a Maker, an Author, and a Youtuber. He is passionate about STEM (Science-Technology-Education-Mathematics) education. He is also a freelance software developer and technology trainer. He graduated from IIIT Hyderabad with M.Tech. in Computer Science and Engineering. He has worked in a few multinational corporations including Cisco Systems and Cognizant for more than a decade. Ashwin is also an online trainer with various eLearning platforms like BPBOnline, Udemy, and Skillshare. In his free time, he consults on the topics of Python programming and data science to the local software companies in the city of Nasik. He is actively involved in various social initiatives and has won many accolades during his student life and at his past workplaces. His Website: <http://www.ashwinpajankar.com/> His LinkedIn Profile: <https://www.linkedin.com/in/ashwinpajankar/>

Introducing JavaFX 8 Programming Herbert Schildt 2015-07-10 Develop cross-platform, feature-rich JavaFX GUI applications with expert instruction from Java guru Herb Schildt Introducing JavaFX 8 Programming provides a fast-paced introduction to JavaFX, Java’s next-generation GUI programming tool In this easy-to-read guide from Oracle Press, Java guru Herb Schildt presents the key topics and concepts that all Java developers will need to begin developing modern, dynamic JavaFX GUI applications. Of course, it’s written in the cohesive, yet concise format that has made Schildt an international best-selling programming author. Designed expressly for Java programmers, the book’s focus is on the new JavaFX API. As a result, all examples are written entirely in Java. The book begins with the fundamentals, including the general form of a JavaFX program. Readers then advance to event handling, controls, images, fonts, layers, effects, transforms, animation s (including 3D animations), menus, and more. Numerous complete examples are included that put key topics and techniques into action. Presents a cohesive, fast-paced overview of key facets of JavaFX 8 programming Sample code used in the text is available for download from the McGraw-Hill/Oracle Press Web site Written in Herb Schildt’s clear, crisp, uncompromising style that has made him the choice of millions worldwide

Internet of Things Rajkumar Buyya 2016-05-11 Internet of Things: Principles and Paradigms captures the state-of-the-art research in Internet of Things, its applications, architectures, and technologies. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. The Internet of Things (IoT) paradigm promises to make any electronic devices part of the Internet environment. This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources. To help realize the full potential of IoT, the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them. These challenges include the development of scalable architecture, moving from closed systems to open systems, designing interaction protocols, autonomic management, and the privacy and ethical issues around data sensing, storage, and processing. Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust, security, and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

Arduino Project Handbook Mark Geddes 2016-06-01 Arduino Project Handbook is a beginner-friendly collection of electronics projects using the low-cost Arduino board. With just a handful of components, an Arduino, and a computer, you’ll learn to build and program everything from light shows to arcade games to an ultrasonic security system. First you’ll get set up with an introduction to the Arduino and valuable advice on tools and components. Then you can work through the book in order or just jump to projects that catch your eye. Each project includes simple instructions, colorful photos and circuit diagrams, and all necessary code. Arduino Project Handbook is a fast and fun way to get started with microcontrollers that’s perfect for beginners, hobbyists, parents, and educators. Uses the Arduino Uno board.

Java For Dummies Barry A. Burd 2011-03-03 Start building powerful programs with Java 6—fast! Get an overview of Java 6 and begin building your own programs Even if you're new to Java programming—or to programming in general—you can get up and running on this wildly popular language in a hurry. This book makes it easy! From how to install and run Java to understanding classes and objects and juggling values with arrays and collections, you will get up to speed on the new features of Java 6 in no time. Discover how to Use object-oriented programming Work with the changes in Java 6 and JDK 6 Save time by reusing code Mix Java and Javascript with the new scripting tools Troubleshoot code problems and fix bugs All on the bonus CD-ROM Custom build of JCreator and all the code files used in the book Bonus chapters not included in the book Trial version of Jindent, WinOne, and NetCaptor freeware System Requirements: For details and complete system requirements, see the CD-ROM appendix. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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