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   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   **The Internet of Things in the Industrial Sector** Zaigham Mahmood,2019-08-02 This book has a focus on the development and deployment of the Industrial Internet of Things IIoT paradigm discussing frameworks methodologies benefits and limitations as well as providing case studies of employing the IoT vision in the industrial domain IIoT is becoming an attractive business reality for many organisations such as manufacturing logistics oil and gas energy and other utilities mining aviation and many more The opportunities for this paradigm are huge and according to one report the IIoT market is predicted to reach 125 billion by 2021 The driving philosophy behind the IIoT is that smart machines are better than humans at accurately capturing analysing and communicating real time data The underlying technologies include distributed computing machine learning artificial intelligence and machine to machine communication with a typical IIoT system consisting of intelligent systems applications controllers sensors and security mechanisms data communication infrastructure cloud computing edge computing etc data analytics to support business intelligence and corporate decision making and most importantly the human element The promised benefits of the IIoT include enhanced safety better reliability smart metering inventory management equipment tracking and facilities management There are however numerous issues that are also becoming the focus of active research such as concerns regarding service availability data security and device communication Lack of ubiquitous interoperability between heterogeneous devices is also a major concern This book intends to fill a gap in the IIoT literature by providing the scientific contributions and latest developments from researchers and practitioners of international repute focusing on frameworks methodologies benefits and inherent issues barriers to connected environments especially in industrial settings The intended audience includes network specialists hardware

engineers and security experts who wish to adopt newer approaches for device connectivity IoT security and sensor based devices design University level students researchers and practitioners will also find the latest innovation in technology and newer approaches relevant to the IIoT from a distributed computing perspective   *Designing Embedded Systems and the Internet of Things (IoT) with the ARM mbed* Perry Xiao,2018-07-23 A comprehensive and accessible introduction to the development of embedded systems and Internet of Things devices using ARM mbed Designing Embedded Systems and the Internet of Things IoT with the ARM mbed offers an accessible guide to the development of ARM mbed and includes a range of topics on the subject from the basic to the advanced ARM mbed is a platform and operating system based on 32 bit ARM Cortex M microcontrollers This important resource puts the focus on ARM mbed NXP LPC1768 and FRDM K64F evaluation boards NXP LPC1768 has powerful features such as a fast microcontroller various digital and analog I Os various serial communication interfaces and a very easy to use Web based compiler It is one of the most popular kits that are used to study and create projects FRDM K64F is relatively new and largely compatible with NXP LPC1768 but with even more powerful features This approachable text is an ideal guide that is divided into four sections Getting Started with the ARM mbed Covering the Basics Advanced Topics and Case Studies This getting started guide Offers a clear introduction to the topic Contains a wealth of original and illustrative case studies Includes a practical guide to the development of projects with the ARM mbed platform Presents timely coverage of how to develop IoT applications Designing Embedded Systems and the Internet of Things IoT with the ARM mbed offers students and R D engineers a resource for understanding the ARM mbed NXP LPC1768 evaluation board   Internet of Things Bharat Bhusan,Sudhir Kumar Sharma,Bhuvan Unhelkar,Muhammad Fazal Ijaz,Lamia Karim,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 Bhushan 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 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   Handbook of IoT and Big Data Vijender Kumar Solanki,Vicente García Díaz,J. Paulo Davim,2019-02-21 This multi contributed handbook focuses on the latest workings of IoT internet of Things and Big Data As the resources are limited it s the endeavor of the authors to support and bring the information into one resource The book is divided into 4 sections that covers IoT and technologies the future of Big Data algorithms and case studies showing IoT and Big Data in various fields such as health care manufacturing and automation Features Focuses on the latest workings of IoT and Big Data Discusses the emerging role of technologies and the fast growing market of Big Data Covers the movement toward automation with hardware software and sensors and trying to save on energy resources Offers the latest technology on IoT Presents the future horizons on Big Data   Edge & Cloud Based IoT Communication Dr. Seema B. Hegde, Mrs. Harshitha R, Dr. V. K. Jain, Mr. B. Karthick, Ms. M.P. Bobby,2025-07-07 This book explores the integration of edge and cloud computing in IoT communication emphasizing efficient data processing scalability and real time decision making It highlights architectures protocols and applications that leverage hybrid edge cloud models to optimize performance enhance security and support diverse IoT domains including healthcare smart cities and industrial automation **Rapid Modernization of Java Applications: Practical Business and Technical Solutions for Upgrading Your Enterprise Portfolio** G. Venkat,2017-10-06 Implement a High Performance Enterprise Java Application Modernization Strategy Learn cutting edge techniques and processes to systematically and strategically modernize legacy Java applications with predictability consistency and confidence This Oracle Press guide offers an innovative blueprint that empowers corporate management teams to better understand necessary technical requirements and enables Java architects and developers to better align with agile business needs Rapid Modernization of Java Applications Practical Business and

Technical Solutions for Upgrading Your Enterprise Portfolio contains modernization approaches that offer end to end Java application portfolio visibility so that application modernization projects can stay on schedule and within budget *Building Enterprise IoT Solutions with Eclipse IoT Technologies* Frédéric Desbiens,2022-12-28 Build IoT solutions for the enterprise using open source building blocks from the Eclipse IoT Working Group at the Eclipse Foundation This book introduces you to key protocols and their implementations such as CoAP Eclipse Californium DDS Eclipse Cyclone DDS LwM2M Eclipse Leshan and MQTT Eclipse Paho Eclipse Mosquitto and Eclipse Amlen You will learn about Edge Computing platforms Eclipse ioFog Eclipse Kanto IoT gateways Eclipse Kura Eclipse Kapua and next generation edge native protocols Eclipse zenoh The book also covers production ready platforms for digital twins Eclipse Ditto energy management Eclipse VOLTTRON contactless payments Eclipse Keyple and much more Although the book discusses hardware matters its focus is on software and relevant open standards The book helps you understand the pros and cons of the technologies available from Eclipse IoT and how they have been used in actual deployments The examples provided cover a variety of use cases such as industrial automation smart agriculture digital buildings robotics and others The book s contents follow a reference architecture encompassing constrained devices things edge devices gateways servers and IoT Cloud platforms For each of those three pillars you will learn about relevant open source components Usage of code libraries and frameworks is explained through code samples You will also learn how to deploy and configure platform type components and how to leverage them Special attention will be paid to security and edge computing throughout the book What You Will Learn Describe in your own words the main software components required in an IoT architecture Select the appropriate IoT protocols components frameworks and platforms for a specific project Evaluate the connectivity options at your disposal and select the most appropriate ones Explain the value of business models focused on open source components and deploy such models in your organization Determine if edge computing is relevant to a project and deploy the relevant components on an edge computing platform Build Enterprise IoT solutions leveraging an array of open source components and platforms using popular languages such as C Java and Rust Who This Book Is For Developers new to enterprise IoT who want to learn about fundamental technologies for that market segment and seek an introduction to relevant open source building blocks experienced IoT developers who seek alternatives to the proprietary platforms they are currently using software architects designing IoT solutions who want to understand open source technology options **Electronics World** ,2016 **Intel Quark SE C1000物聯網開發應用實作 歐弇彣,李文豪**,2018-01-01 Intel Quark SE C1000 Makerpro https makerpro cc owen ou https www facebook com ou owen wenhao lee https www facebook com wenhao1101 Makerpro Tutorial ISSM Intel SE C1000 Tutorial Quark SE C1000 GPIO Tutorial Intel SE C1000 Tutorial https www facebook com sarah lai 18 CPU Intel 2013 Quark Galileo Quark Galileo 2014 Intel Quark Arduino Arduino Galileo G2 G2 USB RS 232 12 PWM PoE Intel 2014 Edison 2 Quark Intel Quark Atom Edison Edison Arduino Uno Edison Intel Intel Quark 2013 X X1000 X1021 8 2015 Quark D D1000 D2000 2017 Quark SE C1000 SE Second Edition

Intel Quark ISSM Intel System Studio for Microcontroller ISSM Eclipse D2000 SE C1000 ISSM D1000 Intel Quark SE C1000 BLE ZigBee Intel Intel Quark SE C1000 GPIO Intel Quark SE C1000 Maker   *Enterprise Internet of Things Handbook* Arvind Ravulavaru,2018-04-30 Get familiar with the building blocks of IoT solutions using off the shelf IoT platforms Key Features Work with various trending IoT platforms such as AWS IoT Azure IoT Google IoT IBM Watson IoT and Kaa IoT Gain hands on knowledge working with Cloud based IoT platforms IoT Analytics and so on A practical guide that will help you build IoT strategies for your organization Book Description There is a lot of work that is being done in the IoT domain and according to Forbes the global IoT market will grow from 157B in 2016 to 457B by 2020 This is an amazing market both in terms technology advancement as well as money In this book we will be covering five popular IoT platforms namely AWS IoT Microsoft Azure IoT Google IoT Core IBM Watson IoT and Kaa IoT middleware You are going to build solutions that will use a Raspberry Pi 3 a DHT11 Temperature and humidity sensor and a dashboard to visualize the sensor data in real time Furthermore you will also explore various components of each of the platforms that are needed to achieve the desired solution Besides building solutions you will look at how Machine Learning and IoT go hand in hand and later design a simple predictive web service based on this concept By the end of this book you will be in a position to implement an IoT strategy best fit for your organization What you will learn Connect a Temperature and Humidity sensor and see how these two can be managed from various platforms Explore the core components of AWS IoT such as AWS Kinesis and AWS IoTRules Engine Build a simple analysis dashboard using Azure IoT and Power BI Understand the fundamentals of Google IoT and use Google core APIs to build your own dashboard Get started and work with the IBM Watson IoT platform Integrate Cassandra and Zeppelin with Kaa IoT dashboard Review some Machine Learning and AI and get to know more about their implementation in the IoT domain Who this book is for This book is targeted at IoT architects and engineers or any stakeholders working with IoT solutions in an organization This book will also help decision makers and professionals from small and medium sized enterprises build an IoT strategy for their venture   *Enterprise IoT* Navveen Balani,2016-07-25 This book provides a most comprehensive view of an Enterprise IoT stack detailed IoT use cases on manufacturing automotive and home automation and how to implement IoT applications using Microsoft IBM Amazon and GE Preix IoT and various open source technologies like Apache Kakfa i e Kafka and Apache Spark Page 4 of cover   *Enabling the Internet of Things* Muhammad Azhar Iqbal,Sajjad Hussain,Huanlai Xing,Muhammad Ali Imran,2020-12-10 LEARN MORE ABOUT FOUNDATIONAL AND ADVANCED TOPICS IN INTERNET OF THINGS TECHNOLOGY WITH THIS ALL IN ONE GUIDE Enabling the Internet of Things Fundamentals Design and Applications delivers a comprehensive starting point for anyone hoping to understand the fundamentals and design of Internet of Things IoT systems The book s distinguished academics and authors offer readers an opportunity to understand IoT concepts via programming in an abstract way Readers will learn about IoT fundamentals hardware and software components IoT protocol stacks security IoT applications and implementations as well as the

challenges and potential solutions that lie ahead Readers will learn about the social aspects of IoT systems as well as receive an introduction to the Blockly Programming Language IoT Microcontrollers IoT Microprocessors systems on a chip and IoT Gateway Architecture The book also provides implementation of simple code examples in Packet Tracer increasing the usefulness and practicality of the book Enabling the Internet of Things examines a wide variety of other essential topics including The fundamentals of IoT including its evolution distinctions definitions vision enabling technologies and building blocks An elaboration of the sensing principles of IoT and the essentials of wireless sensor networks A detailed examination of the IoT protocol stack for communications An analysis of the security challenges and threats faced by users of IoT devices as well as the countermeasures that can be used to fight them from the perception layer to the application layer Perfect as a supplementary text for undergraduate students taking computer science or electrical engineering courses Enabling the Internet of Things also belongs on the bookshelves of industry professionals and researchers who regularly work with and on the Internet of Things and who seek a better understanding of its foundational and advanced topics **Building Enterprise IoT Applications** Chandrasekar Vuppalapati,2019-12-12 McKinsey Global Institute predicts Internet of Things IoT could generate up to 11 1 trillion a year in economic value by 2025 Gartner Research Company expects 20 billion inter connected devices by 2020 and as per Gartner the IoT will have a significant impact on the economy by transforming many enterprises into digital businesses and facilitating new business models improving efficiency and increasing employee and customer engagement It s clear from above and our research that the IoT is a game changer and will have huge positive impact in foreseeable future In order to harvest the benefits of IoT revolution the traditional software development paradigms must be fully upgraded The mission of our book is to prepare current and future software engineering teams with the skills and tools to fully utilize IoT capabilities The book introduces essential IoT concepts from the perspectives of full scale software development with the emphasis on creating niche blue ocean products It also Outlines a fundamental full stack architecture for IoT Describes various development technologies in each IoT layer Explains IoT solution development from Product management perspective Extensively covers security and applicable threat models as part of IoT stack The book provides details of several IoT reference architectures with emphasis on data integration edge analytics cluster architectures and closed loop responses **Internet of Things for Architects** Perry Lea,2018-01-22 Learn to design implement and secure your IoT infrastructure Key Features Build a complete IoT system that is the best fit for your organization Learn about different concepts technologies and tradeoffs in the IoT architectural stack Understand the theory concepts and implementation of each element that comprises IoT design from sensors to the cloud Implement best practices to ensure the reliability scalability robust communication systems security and data analysis in your IoT infrastructure Book DescriptionThe Internet of Things IoT is the fastest growing technology market Industries are embracing IoT technologies to improve operational expenses product life and people s well being An architectural guide is necessary if you want to traverse the spectrum of

technologies needed to build a successful IoT system whether that s a single device or millions of devices This book encompasses the entire spectrum of IoT solutions from sensors to the cloud We start by examining modern sensor systems and focus on their power and functionality After that we dive deep into communication theory paying close attention to near range PAN including the new Bluetooth 5 0 specification and mesh networks Then we explore IP based communication in LAN and WAN including 802 11ah 5G LTE cellular Sigfox and LoRaWAN Next we cover edge routing and gateways and their role in fog computing as well as the messaging protocols of MQTT and CoAP With the data now in internet form you ll get an understanding of cloud and fog architectures including the OpenFog standards We wrap up the analytics portion of the book with the application of statistical analysis complex event processing and deep learning models Finally we conclude by providing a holistic view of the IoT security stack and the anatomical details of IoT exploits while countering them with software defined perimeters and blockchains What you will learn Understand the role and scope of architecting a successful IoT deployment from sensors to the cloud Scan the landscape of IoT technologies that span everything from sensors to the cloud and everything in between See the trade offs in choices of protocols and communications in IoT deployments Build a repertoire of skills and the vernacular necessary to work in the IoT space Broaden your skills in multiple engineering domains necessary for the IoT architect Who this book is for This book is for architects system designers technologists and technology managers who want to understand the IoT ecosphere various technologies and tradeoffs and develop a 50 000 foot view of IoT architecture **Programming the Internet of Things** Andy King,2021-06-10 Learn how to program the Internet of Things with this hands on guide By breaking down IoT programming complexities in step by step building block fashion author and educator Andy King shows you how to design and build your own full stack end to end IoT solution from device to cloud This practical book walks you through tooling development environment setup solution design and implementation You ll learn how a typical IoT ecosystem works as well as how to tackle integration challenges that crop up when implementing your own IoT solution Whether you re an engineering student learning the basics of the IoT a tech savvy executive looking to better understand the nuances of IoT technology stacks or a programmer building your own smart house solution this practical book will help you get started Design an end to end solution that implements an IoT use case Set up an IoT centric development and testing environment Organize your software design by creating abstractions in Python and Java Use MQTT CoAP and other protocols to connect IoT devices and services Create a custom JSON based data format that s consumable across a range of platforms and services Use cloud services to support your IoT ecosystem and provide business value for stakeholders *Internet of Things From Hype to Reality* Ammar Rayes,Samer Salam,2016-10-22 This book comprehensively describes an end to end Internet of Things IoT architecture that is comprised of devices network compute storage platform applications along with management and security components It is organized into five main parts comprising of a total of 11 chapters Part I presents a generic IoT reference model to establish a common vocabulary for IoT

solutions This includes a detailed description of the Internet protocol layers and the Things sensors and actuators as well as the key business drivers to realize the IoT vision Part II focuses on the IoT requirements that impact networking protocols and provides a layer by layer walkthrough of the protocol stack with emphasis on industry progress and key gaps Part III introduces the concept of Fog computing and describes the drivers for the technology its constituent elements and how it relates and differs from Cloud computing Part IV discusses the IoT services platform the cornerstone of the solution followed by the Security functions and requirements Finally Part V provides a treatment of the topic of connected ecosystems in IoT along with practical applications It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT Faculty will find well crafted questions and answers at the end of each chapter suitable for review and in classroom discussion topics In addition the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future Dr Jim Spohrer IBM This text provides a very compelling study of the IoT space and achieves a very good balance between engineering technology focus and business context As such it is highly recommended for anyone interested in this rapidly expanding field and will have broad appeal to a wide cross section of readers i e including engineering professionals business analysts university students and professors Professor Nasir Ghani University of South Florida   *Learning Iot with Particle Core and Photon* ,2016   *Industrial Internet Application Development* Alena Traukina,Jayant Thomas,Prashant Tyagi,Kishore Reddipalli,2018-09-29 Your one stop guide to designing building managing and operating Industrial Internet of Things IIoT applications Key FeaturesBuild IIoT applications and deploy them on Platform as a Service PaaS Learn data analytics techniques in IIoT using Spark and TensorFlowUnderstand and combine Predix services to accelerate your developmentBook Description The Industrial Internet refers to the integration of complex physical machines with networked sensors and software The current growth in the number of sensors deployed in heavy machinery and industrial equipment will lead to an exponential increase in data being captured that needs to be analyzed for predictive analytics This also opens up a new avenue for developers who want to build exciting industrial applications Industrial Internet Application Development serves as a one stop guide for software professionals wanting to design build manage and operate IIoT applications You will develop your first IIoT application and understand its deployment and security considerations followed by running through the deployment of IIoT applications on the Predix platform Once you have got to grips with what IIoT is you will move on to exploring Edge Development along with the analytics portions of the IIoT stack All this will help you identify key elements of the development framework and understand their importance when considering the overall architecture and design considerations for IIoT applications By the end of this book you will have grasped how to deploy IIoT applications on the Predix platform as well as incorporate best practices for making fault tolerant and reliable IIoT systems What you will learnConnect prototype devices to CloudStore data in IIoT applications Explore data

management techniques and implementationStudy IIoT applications analytics using Spark ML and TensorFlow Deploy analytics and visualize the outcomes as AlertsUnderstand continuous deployment using Docker and Cloud FoundryMake your applications fault tolerant and monitor them with New RelicUnderstand IIoT platform architecture and implement IIoT applications on the platformWho this book is for This book is intended for software developers architects product managers and executives keen to gain insights into Industrial Internet development A basic knowledge of any popular programming language such as Python will be helpful   *Programming the Internet of Things* Andy King,2021-08-17 Learn how to program the Internet of Things with this hands on guide By breaking down IoT programming complexities in step by step building block fashion author and educator Andy King shows you how to design and build your own full stack end to end IoT solution from device to cloud This practical book walks you through tooling development environment setup solution design and implementation You ll learn how a typical IoT ecosystem works as well as how to tackle integration challenges that crop up when implementing your own IoT solution Whether you re an engineering student learning the basics of the IoT a tech savvy executive with a company embarking on an IoT journey or a programmer building your own smart house solution this practical book will help you get started Design an end to end solution that implements an IoT use case Set up an IoT centric development and testing environment Organize your software design by creating abstractions in Python and Java Use MQTT CoAP and other protocols to connect IoT devices and services Create a custom JSON based data format that s consumable across a range of platforms and services Use cloud services to support your IoT ecosystem and provide business value for stakeholders

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