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Developer Guide

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**Augusto Casaca,Srinivas
Katkoori,Sandip Ray,Leon Strous**

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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

[Practical Java Programming for IoT, AI, and Blockchain](#) Perry Xiao, 2019-07-02 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

High-Performance Computing and Big Data Analysis Lucio Grandinetti, Seyedeh Leili Mirtaheri, Reza Shahbazian, 2019-10-19 This book constitutes revised and selected papers from the Second International Congress on High Performance Computing and Big Data Analysis TopHPC 2019 held in Tehran Iran in April 2019 The 37 full papers and 2 short papers presented in this volume were carefully reviewed and selected from a total of 103 submissions The papers in the volume are organized according to the following topical headings deep learning big data analytics Internet of Things data mining neural network and genetic algorithms performance issues and quantum computing

Accelerating IoT Development with ChatGPT Jun Wen, 2024-08-30 Build cutting edge projects with ChatGPT PlatformIO ESP32 and Arduino compatible sensors by integrating AWS Cloud and the ThingsBoard dashboard Key Features Leverage ChatGPT to generate code on ESP32 for sending sensor data to AWS Cloud Create your own visualization dashboard on ThingsBoard Cloud Follow step by step configuration guidance to ingest process store and query data on AWS Cloud Purchase of the print or Kindle book includes a free PDF eBook Book Description Unlike other IoT books that focus on theory and generic applications this guide takes a practical approach empowering you to leverage ChatGPT to build your very first IoT prototype With over 20 years of experience in wireless and IoT technologies and a background as an instructor Jun Wen expertly guides you from project kick off to a fully functional prototype The book emphasizes the transformative impact of ChatGPT for IoT teaching you how to use ChatGPT to generate code for your applications even with limited coding experience You ll be introduced to using PlatformIO IDE within Visual Studio Code and discover the cutting edge RISC V architecture the ESP32 MCU Arduino compatible sensors and integration methods for AWS and the ThingsBoard dashboard Working through 10 different project examples including flame detection smoke detection and air quality measurement you ll become proficient in the functions and specifications of each sensor and the use cases they solve By the end of this book you ll be ready to undertake IoT development projects bridging the gap between your ideas and functional creations What you will learn Master IoT essentials such as networks end devices wireless connectivity and the cloud Explore the ChatGPT prompting framework and build crucial skills for IoT projects Discover best practices for building robust IoT hardware prototypes Find out how to set up Visual Studio Code and PlatformIO IDE Connect ESP32 to AWS through TLS and MQTT Explore popular connectivity technologies widely adopted in IoT Integrate IoT sensors with ESP32 to capture accurate data using ChatGPT s assistance Who this book is for If you re a beginner interested in applying IoT technology to your projects but face challenges due to limited experience in embedded software coding specifically in C and C this book is for you Whether you re a student hardware hobbyist DIY enthusiast IoT developer or professional from a non technical background if you feel that your ability to innovate is often stalled by the complexity of software coding this easy to follow guide to using ChatGPT for generating example code will boost your IoT prototype development Computer Vision on AWS Lauren Mullennex, Nate Bachmeier, Jay Rao, 2023-03-31 Develop scalable computer vision solutions for real world business problems and discover scaling cost reduction security and bias mitigation best practices with AWS AI ML services Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn how to quickly deploy and automate end to end CV pipelines on AWS Implement design principles to mitigate bias and scale production of CV workloads Work with code examples to master CV concepts using AWS AI ML services Book Description Computer vision CV is a field of artificial intelligence that helps transform visual data into actionable insights to solve a wide range of business challenges This book provides prescriptive guidance to anyone looking to learn how to approach CV problems for quickly building and deploying production

ready models You'll begin by exploring the applications of CV and the features of Amazon Rekognition and Amazon Lookout for Vision The book will then walk you through real world use cases such as identity verification real time video analysis content moderation and detecting manufacturing defects that'll enable you to understand how to implement AWS AI ML services As you make progress you'll also use Amazon SageMaker for data annotation training and deploying CV models In the concluding chapters you'll work with practical code examples and discover best practices and design principles for scaling reducing cost improving the security posture and mitigating bias of CV workloads By the end of this AWS book you'll be able to accelerate your business outcomes by building and implementing CV into your production environments with the help of AWS AI ML services What you will learn Apply CV across industries including e-commerce logistics and media Build custom image classifiers with Amazon Rekognition Custom Labels Create automated end-to-end CV workflows on AWS Detect product defects on edge devices using Amazon Lookout for Vision Build deploy and monitor CV models using Amazon SageMaker Discover best practices for designing and evaluating CV workloads Develop an AI governance strategy across the entire machine learning life cycle Who this book is for If you are a machine learning engineer or data scientist looking to discover best practices and learn how to build comprehensive CV solutions on AWS this book is for you Knowledge of AWS basics is required to grasp the concepts covered in this book more effectively A solid understanding of machine learning concepts and the Python programming language will also be beneficial [The Insider's Guide to Arm Cortex-M Development](#) Zachary Lasiuk, Pareena Verma, Jason Andrews, 2022-10-27 Learn and implement the latest Arm Cortex M microcontroller development concepts such as performance optimization security software reuse machine learning continuous integration and cloud based development from industry experts Key Features Learn how to select the best Cortex M hardware software and tools for your project Understand the use of key software components and how to optimize and develop modern applications Get hands on experience implementing quality software using example code provided in the book Purchase of the print or Kindle book includes a free eBook in the PDF format Book Description Cortex M has been around since 2004 so why a new book now With new microcontrollers based on the Cortex M55 and Cortex M85 being introduced this year Cortex M continues to expand New software concepts such as standardized software reuse have emerged alongside new topics including security and machine learning Development methodologies have also significantly advanced with more embedded development taking place in the cloud and increased levels of automation Due to these advances a single engineer can no longer understand an entire project and requires new skills to be successful This book provides a unique view of how to navigate and apply the latest concepts in microcontroller development The book is split into two parts First you'll be guided through how to select the ideal set of hardware software and tools for your specific project Next you'll explore how to implement essential topics for modern embedded developers Throughout the book there are examples for you to learn by working with real Cortex M devices with all software available on GitHub You will gain

experience with the small Cortex M0 the powerful Cortex M55 and more Cortex M processors By the end of this book you ll be able to practically apply modern Cortex M software development concepts What you will learn Familiarize yourself with heuristics to identify the right components for your Cortex M project Boot code to efficiently start up a Cortex M device Optimize algorithms with compilers middleware and other means Get to grips with machine learning frameworks and implementation techniques Understand security in the embedded space with solutions like TrustZone and TF M Explore cloud based development methodologies to increase efficiency Dive into continuous integration frameworks and best practices Identify future trends that could impact Cortex M software development Who this book is for This book is for practicing engineers and students working with embedded and IoT systems who want to quickly learn how to develop quality software for Arm Cortex M processors without reading long technical manuals If you re looking for a book that explains C or assembly language programming for the purpose of creating a single application or mastering a type of programming such as digital signal processing algorithms then this book is NOT for you A basic understanding of embedded hardware and software along with general C programming skills will assist with understanding the concepts covered in this book

Research Anthology on Agile Software, Software Development, and Testing Management Association, Information Resources,2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and academicians

Developing IoT Projects with ESP32 Vedat Ozan Oner,2021-09-13 Master the technique of using ESP32 as an edge device in any IoT application where wireless communication can make life easier Key Features Gain practical experience in working with ESP32 Learn to interface various electronic devices such as sensors integrated circuits ICs and displays Apply your knowledge to build real world automation projects Book DescriptionDeveloping IoT Projects with ESP32 provides end to end coverage of secure data communication techniques from sensors to cloud platforms that will help you to develop production grade IoT solutions by using the ESP32 SoC You ll learn how to employ ESP32 in your IoT projects by interfacing with different sensors and actuators using different types of serial protocols This book will show you how some projects require

immediate output for end users and cover different display technologies as well as examples of driving different types of displays The book features a dedicated chapter on cybersecurity packed with hands on examples As you progress you ll get to grips with BLE technologies and BLE mesh networking and work on a complete smart home project where all nodes communicate over a BLE mesh Later chapters will show you how IoT requires cloud connectivity most of the time and remote access to smart devices You ll also see how cloud platforms and third party integrations enable endless possibilities for your end users such as insights with big data analytics and predictive maintenance to minimize costs By the end of this book you ll have developed the skills you need to start using ESP32 in your next wireless IoT project and meet the project s requirements by building effective efficient and secure solutions What you will learn Explore advanced use cases like UART communication sound and camera features low energy scenarios and scheduling with an RTOS Add different types of displays in your projects where immediate output to users is required Connect to Wi Fi and Bluetooth for local network communication Connect cloud platforms through different IoT messaging protocols Integrate ESP32 with third party services such as voice assistants and IFTTT Discover best practices for implementing IoT security features in a production grade solution Who this book is for If you are an embedded software developer an IoT software architect or developer a technologist or anyone who wants to learn how to use ESP32 and its applications this book is for you A basic understanding of embedded systems programming networking and cloud computing concepts is necessary to get started with the book

Applied Machine Learning and High-Performance Computing on AWS Mani Khanuja, Farooq Sabir, Shreyas Subramanian, Trenton Potgieter, 2022-12-30 Build train and deploy large machine learning models at scale in various domains such as computational fluid dynamics genomics autonomous vehicles and numerical optimization using Amazon SageMaker Key Features Understand the need for high performance computing HPC Build train and deploy large ML models with billions of parameters using Amazon SageMaker Learn best practices and architectures for implementing ML at scale using HPC Book Description Machine learning ML and high performance computing HPC on AWS run compute intensive workloads across industries and emerging applications Its use cases can be linked to various verticals such as computational fluid dynamics CFD genomics and autonomous vehicles This book provides end to end guidance starting with HPC concepts for storage and networking It then progresses to working examples on how to process large datasets using SageMaker Studio and EMR Next you ll learn how to build train and deploy large models using distributed training Later chapters also guide you through deploying models to edge devices using SageMaker and IoT Greengrass and performance optimization of ML models for low latency use cases By the end of this book you ll be able to build train and deploy your own large scale ML application using HPC on AWS following industry best practices and addressing the key pain points encountered in the application life cycle What you will learn Explore data management storage and fast networking for HPC applications Focus on the analysis and visualization of a large volume of data using Spark Train visual transformer models using SageMaker distributed

trainingDeploy and manage ML models at scale on the cloud and at the edgeGet to grips with performance optimization of ML models for low latency workloadsApply HPC to industry domains such as CFD genomics AV and optimizationWho this book is for The book begins with HPC concepts however it expects you to have prior machine learning knowledge This book is for ML engineers and data scientists interested in learning advanced topics on using large datasets for training large models using distributed training concepts on AWS deploying models at scale and performance optimization for low latency use cases Practitioners in fields such as numerical optimization computation fluid dynamics autonomous vehicles and genomics who require HPC for applying ML models to applications at scale will also find the book useful *Technology Trends* Miguel Botto-Tobar,Nelly Esparza-Cruz,Joffre León-Acurio,Narcisa Crespo-Torres,Marola Beltrán-Mora,2017-12-30 This book constitutes the refereed proceedings of the Third International Conference on Technology Trends CITT 2017 held in Babahoyo Ecuador in November 2017 The 16 revised full papers presented were carefully reviewed and selected from 71 submissions The papers are organized in topical sections on communications computer and software engineering

Security and Privacy in Communication Networks Haixin Duan,Mourad Debbabi,Xavier de Carné de Carnavalet,Xiapu Luo,Xiaojiang Du,Man Ho Allen Au,2024-10-12 This two volume LNICST 567 568 set constitutes the post conference proceedings of the 19th International Conference on Security and Privacy in Communication Networks SecureComm 2023 held in October 2023 in Hong Kong China The 52 papers were carefully reviewed and selected from 180 submissions The papers presented in these two volumes are clustered into various thematical issues as follows Part I AI for Security Authentication Blockchain and Distributed System Security Cryptography Data Security Part II Intrusion and Anomaly Detection IoT Security Network Security Privacy Program Analysis Software Security *AWS Certified SysOps Administrator Official Study Guide* Stephen Cole,Gareth Digby,Chris Fitch,Steve Friedberg,Shaun Qualheim,Jerry Rhoads,Michael Roth,Blaine Sundrud,2017-09-19 Comprehensive interactive exam preparation and so much more The AWS Certified SysOps Administrator Official Study Guide Associate Exam is a comprehensive exam preparation resource This book bridges the gap between exam preparation and real world readiness covering exam objectives while guiding you through hands on exercises based on situations you ll likely encounter as an AWS Certified SysOps Administrator From deployment management and operations to migration data flow cost control and beyond this guide will help you internalize the processes and best practices associated with AWS The Sybex interactive online study environment gives you access to invaluable preparation aids including an assessment test that helps you focus your study on areas most in need of review and chapter tests to help you gauge your mastery of the material Electronic flashcards make it easy to study anytime anywhere and a bonus practice exam gives you a sneak preview so you know what to expect on exam day Cloud computing offers businesses a cost effective instantly scalable IT infrastructure The AWS Certified SysOps Administrator Associate credential shows that you have technical expertise in deployment management and operations on AWS Study exam objectives Gain

practical experience with hands on exercises Apply your skills to real world scenarios Test your understanding with challenging review questions Earning your AWS Certification is much more than just passing an exam you must be able to perform the duties expected of an AWS Certified SysOps Administrator in a real world setting This book does more than coach you through the test it trains you in the tools procedures and thought processes to get the job done well If you re serious about validating your expertise and working at a higher level the AWS Certified SysOps Administrator Official Study Guide Associate Exam is the resource you ve been seeking *AWS Certified Machine Learning - Specialty (MLS-C01) Certification Guide* Somanath Nanda,Wesley Moura,2024-02-29 Prepare confidently for the AWS MLS C01 certification with this comprehensive and up to date exam guide accompanied by web based tools such as mock exams flashcards and exam tips Key Features Gain proficiency in AWS machine learning services to excel in the MLS C01 exam Build model training and inference pipelines and deploy machine learning models to the AWS cloud Practice on the go with the mobile friendly bonus website accessible with the book Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe AWS Certified Machine Learning Specialty MLS C01 exam evaluates your ability to execute machine learning tasks on AWS infrastructure This comprehensive book aligns with the latest exam syllabus offering practical examples to support your real world machine learning projects on AWS Additionally you ll get lifetime access to supplementary online resources including mock exams with exam like timers detailed solutions interactive flashcards and invaluable exam tips all accessible across various devices PCs tablets and smartphones Throughout the book you ll learn data preparation techniques for machine learning covering diverse methods for data manipulation and transformation across different variable types Addressing challenges such as missing data and outliers the book guides you through an array of machine learning tasks including classification regression clustering forecasting anomaly detection text mining and image processing accompanied by requisite machine learning algorithms essential for exam success The book helps you master the deployment of models in production environments and their subsequent monitoring Equipped with insights from this book and the accompanying mock exams you ll be fully prepared to achieve the AWS MLS C01 certification What you will learn Identify ML frameworks for specific tasks Apply CRISP DM to build ML pipelines Combine AWS services to build AI ML solutions Apply various techniques to transform your data such as one hot encoding binary encoder ordinal encoding binning and text transformations Visualize relationships comparisons compositions and distributions in the data Use data preparation techniques and AWS services for batch and real time data processing Create training and inference ML pipelines with Sage Maker Deploy ML models in a production environment efficiently Who this book is for This book is designed for both students and professionals preparing for the AWS Certified Machine Learning Specialty exam or enhance their understanding of machine learning with a specific emphasis on AWS Familiarity with machine learning basics and AWS services is recommended to fully benefit from this book **LTE Cellular Narrowband Internet of Things (NB-IoT)** Hossam

Fattah, 2021-04-28 NB IoT is the Internet of Things IoT technology used for cellular communication NB IoT devices deliver much better capability and performance such as increased area coverage of up to one kilometer a massive number of devices up to 200 000 per a single base station area longer battery lifetime of ten years and better indoor and outdoor coverage for areas with weak signal such as underground garages The cellular NB IoT technology is a challenging technology to use and understand With more than 30 projects presented in this book covering many use cases and scenarios this book provides hands on and practical experience of how to use the cellular NB IoT for smart applications using Arduino™ Amazon Cloud Google Maps and charts The book starts by explaining AT commands used to configure the NB IoT modem data serialization and deserialization how to set up the cloud for connecting NB IoT devices setting up rules policy security certificates and a NoSQL database on the cloud how to store and read data in the cloud how to use Google Maps to visualize NB IoT device geo location and how to use charts to visualize sensor datasets Projects for Arduino are presented in four parts The first part explains how to connect the device to the mobile operator and cellular network perform communication using different network protocols such as TCP HTTP SSL or MQTT how to use GPS for geo location applications and how to upgrade NB IoT modem firmware over the air The second part explains the microcontroller unit and how to build and run projects such as a 7 segment display or a real time clock The third part explains how NB IoT can be used with sensor devices such as ultrasonic and environmental sensors Finally the fourth part explains how NB IoT can be used to control actuators such as stepper motors and relays This book is a unique resource for understanding practical uses of the NB IoT technology and serves as a handbook for technical and non technical readers who are looking for practicing and exercising the cellular NB IoT technology The book can be used by engineers students researchers system integrators mobile operators technical staff and electronics enthusiasts To download the software which can be used with the book go to <https://github.com/5ghub/NB-IoT>

About the Author Hossam Fattah is a technology expert in 4G 5G wireless systems and networking He received his Ph D in Electrical and Computer Engineering from University of British Columbia Vancouver Canada in 2003 He received his Master of Applied Science in Electrical and Computer Engineering from University of Victoria Victoria Canada in 2000 He completed his B Sc degree in Computers and Systems Engineering from Al Azhar University Cairo Egypt in 1995 Between 2003 and 2011 he was in academia and industry including Texas A M University Between 2011 and 2013 he was with Spirent Communications NJ USA Since 2013 he has been with Microsoft USA He is also an affiliate associate professor at University of Washington Tacoma WA USA teaching graduate courses on IoT and distributed systems and collaborating on 5G research and innovations He has had many patents and technical publications in conferences and journals He is a registered professional Engineer with the Association of Professional Engineers British Columbia Canada He is the author of the recent book 5G LTE Narrowband Internet of Things NB IoT His research interest is in wireless communications and radio networks and protocols cellular quality of service radio resource management traffic and packet scheduling network analytics and

mobility **Internet of Things from Scratch** Renaldi Gondosubroto, 2024-02-16 Kickstart your IoT design and implementation journey with this comprehensive book covering basics to advanced concepts through practical examples and industry standard practices Key Features Master the different components that make up an IoT system to design and implement solutions Unlock the powerful capabilities of cloud computing that enhance the efficiency of your IoT deployments Integrate cutting edge technologies such as with generative AI into your IoT projects Purchase of the print or Kindle book includes a free PDF eBook Book Description Develop the skills essential for building Internet of Things solutions with this indispensable guide In an era where industries heavily rely on IoT this book will quickly familiarize you with its foundations widespread use implementation guided by best practices and the crucial technologies that allow it to work effectively Starting with the use of IoT in real life scenarios this book offers comprehensive insights into basic IoT hardware protocols and technologies You ll then learn about architecting and implementing solutions such as wireless sensor networks cloud computing with AWS and crucial security considerations You ll understand how these systems are operated and monitored over time and work with simple to complex industry grade systems adhering to best practices In later chapters you ll be apprised of future IoT trends and strategies to manage the risks and opportunities that come with them You ll also get to grips with a diverse set of tools including hardware such as ESP32 and Raspberry Pi and software such as Mosquitto and ChatGPT for generative AI capabilities By the end of this IoT book you ll be able to independently build and design complex industry standard solutions fully aligned with best practices What you will learn Gain a holistic understanding of IoT basics through real life use cases Explore communication protocols and technologies integral to IoT Use AWS to build resilient low latency networks Construct complex IoT networks building upon foundational principles Integrate data analytics workloads and generative AI seamlessly with IoT Understand the security threat landscape of IoT and how to mitigate these risks Develop industry grade projects within the open source IoT community Embrace a futuristic perspective of IoT by understanding both risks and rewards Who this book is for The book is for novice electronics engineers embedded systems specialists and IoT developers as well as intermediate practitioners looking to advance in the world of industry based IoT applications While no prior knowledge of IoT is assumed familiarity with at least one programming language is recommended to get the most out of this book *Internet of Things. A Confluence of Many Disciplines* Augusto Casaca, Srinivas Katkoori, Sandip Ray, Leon Strous, 2020-03-18 This book constitutes the refereed post conference proceedings of the Second IFIP International Cross Domain Conference on Internet of Things IFIP IoT 2019 held in Tampa USA in October November 2019 The 11 full papers presented were carefully reviewed and selected from 22 submissions Also included in this volume are 8 invited papers The papers are organized in the following topical sections IoT applications context reasoning and situational awareness IoT security smart and low power IoT smart network architectures and smart system design and IoT education **Designing Production-Grade and Large-Scale IoT Solutions** Mohamed Abdelaziz, 2022-05-26 Get to grips

with key IoT aspects along with modern trends architectures and technologies that support IoT solutions such as cloud computing modern app architecture paradigms and data analytics Key Features Understand the big picture of designing production grade IoT solutions from an industry expert Get up and running with the development and designing aspects of the Internet of Things Solve business problems specific to your domain using different IoT platforms and technologies Book Description With the rising demand for and recent enhancements in IoT a developer with sound knowledge of IoT is the need of the hour This book will help you design build and operate large scale E2E IoT solutions to transform your business and products increase revenue and reduce operational costs Starting with an overview of how IoT technologies can help you solve your business problems this book will be a useful guide to helping you implement end to end IoT solution architecture You ll learn to select IoT devices real time operating systems IoT Edge covering Edge location software and hardware and the best IoT connectivity for your IoT solution As you progress you ll work with IoT device management IoT data analytics IoT platforms and put these components to work as part of your IoT solution You ll also be able to build IoT backend cloud from scratch by leveraging the modern app architecture paradigms and cloud native technologies such as containers and microservices Finally you ll discover best practices for different operational excellence pillars including high availability resiliency reliability security cost optimization and high performance which should be applied for large scale production grade IoT solutions By the end of this IoT book you ll be confident in designing building and operating IoT solutions What you will learn Understand the detailed anatomy of IoT solutions and explore their building blocks Explore IoT connectivity options and protocols used in designing IoT solutions Understand the value of IoT platforms in building IoT solutions Explore real time operating systems used in microcontrollers Automate device administration tasks with IoT device management Master different architecture paradigms and decisions in IoT solutions Build and gain insights from IoT analytics solutions Get an overview of IoT solution operational excellence pillars Who this book is for This book is for E2E solution architects systems and technical architects and IoT developers looking to design build and operate E2E IoT applications and solutions Basic knowledge of cloud computing software engineering and distributed system design will help you get the most out of this book

Advances in Computer Science and Ubiquitous Computing James J. (Jong Hyuk) Park, Yi Pan, Gangman Yi, Vincenzo Loia, 2016-12-01 This book presents the combined proceedings of the 8th International Conference on Computer Science and its Applications CSA 16 and the 11st International Conference on Ubiquitous Information Technologies and Applications CUTE 2016 both held in Bangkok Thailand December 19 21 2016 The aim of these two meetings was to promote discussion and interaction among academics researchers and professionals in the field of ubiquitous computing technologies These proceedings reflect the state of the art in the development of computational methods involving theory algorithm numerical simulation error and uncertainty analysis and novel application of new processing techniques in engineering science and other disciplines related to ubiquitous computing **Computational Science/Intelligence and Applied Informatics**

Roger Lee,2019-07-25 This book gathers the outcomes of the 6th ACIS International Conference on Computational Science Intelligence Applied Informatics CSII 2019 which was held on May 29 31 2019 in Honolulu Hawaii The aim of the conference was to bring together researchers and scientists businesspeople and entrepreneurs teachers engineers computer users and students to discuss the various fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way Further they presented research results on all aspects theory applications and tools of computer and information science and discussed the practical challenges encountered in their work and the solutions they adopted to overcome them The book highlights the best papers from those accepted for presentation at the conference They were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review From this second round 15 of the conference s most promising papers were selected for this Springer SCI book and not the conference proceedings We eagerly await the important contributions that we know these authors will make to the field of computer and information science

Practical IoT Handbook Rodrigo J Hernandez,2025-05-31
DESCRIPTION The field of the IoT is fundamentally reshaping how physical objects interact with digital systems through enhanced connectivity and embedded intelligence This book serves as an indispensable resource guiding readers through the essential principles and techniques required to unlock the full potential of IoT From foundational concepts to the development of innovative real world applications this handbook offers a structured step by step approach for anyone seeking either a comprehensive introduction or an opportunity to expand their expertise in this transformative domain The book begins with hands on projects that guide readers through the essentials of IoT development combining foundational knowledge with practical application Readers will work with popular development boards like the ESP8266 ESP32 Raspberry Pi Pico and Raspberry Pi 4 while learning key hardware concepts and setting up a development environment using free open source tools such as Arduino IDE Python and Visual Studio Code Core IoT topics include programming microcontrollers interfacing with sensors and actuators and using communication protocols like MQTT CoAP and HTTP The book also covers storing and visualizing data with InfluxDB and Grafana By the end of this book readers will have developed a solid foundation in IoT programming along with the practical skills and theoretical understanding necessary to design build and deploy effective IoT solutions The book prepares readers to undertake a wide range of IoT projects and contribute meaningfully to this rapidly advancing field
WHAT YOU WILL LEARN ESP32 ESP8266 Raspberry Pi interfacing and programming tools Arduino Python VSC Connect and use sensors and actuators with the microcontrollers and the Raspberry Pi 4 computer Learn about open source systems Node RED InfluxDB Grafana Home Assistant and OpenHAB Interface diverse sensors actuators master GPIO MQTT CoAP HTTP protocols Design and implement connected systems for environmental and home automation
WHO THIS BOOK IS FOR This book is for students pursuing tech careers tech enthusiasts hobbyists makers and software developers interested in learning IoT programming Basic programming knowledge and familiarity with electronics

concepts will be beneficial but not strictly required as the book guides you from the fundamentals

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