
IoT Push Notifications Arduino Firebase And Android

IoT Push Notification using Google Firebase and Arduino Nodemcu IoT push notification using Google Firebase and Arduino Nodemcu IOT with Firebase : Sensor Alert Push Notification to Android App Using FCM \u0026amp; PUSHER #PART4 IOT Push Notification to Android by Arduino Node MCU \u0026amp; Firebase Cloud Messaging Fire Detection Alert Push Notification With ESP8266 And Firebase Google IOT with Firebase: Sensor Alert Automated Push Notification to Android:Python, FCM \u0026amp; Pusher #Part5 Every Home needs this IoT DEVICE! \u2013 (Keep Track of EVERYTHING)\u2013 ESP32 \u0026amp; Firebase The Ultimate Guide to Firebase Storage Integration in Spring Boot Special | Push notification from Dot Net 6 to Firebase using Core Push package Onesignal Push Notification 2024 Full Setup | Firebase Push Notification | Onesignal Android 13 Arduino Project: Nodemcu ESP8266 notification message \u0026amp; real time monitoring using Blynk application Firebase With ESP || Send and Receive data

With Realtime Database. How to Add / Connect Firebase Library in Arduino IDE for NodeMCU | IoT NodeMCU to Firebase Database IoT Patient Monitoring System with Flutter, Firebase, and ESP32 JavaScript Firebase Web Push Notification Tutorial Push notifications in React with Firebase Send Sensor data to Firebase using ESP32 | Cloud setup | Arduino Coding | Firebase Realtime Database Esp8266 push notification Google Firebase \u0026 ESP8266 Complete Guide - Sending/Receiving Data from ESP8266 \u0026 Firebase How to Implement Firebase Push Notifications on Android (FCM + Backend) ESP8266 + Sensor Push Notification on Smartphone B4X - Sending push notifications from ESP8266 to Android and iOS Flutter Firebase Push Notifications Realtime Database | IoT | New 2021 How to send push notifications from firebase

New Paradigm in Decision Science and Management

Practical Java Machine Learning

Emerging Technologies in Data Mining and Information Security

Trends and Applications in Information Systems and Technologies

Mobile Technologies and Applications for the Internet of Things

Emerging Technologies in Data Mining and Information Security

Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing

Mastering Python

Sustainable Smart Cities and Territories
Security and Privacy in Communication Networks
IoT Projects with Bluetooth Low Energy
Handbook of Medical and Healthcare Technologies
Design by Numbers
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Design Patterns in Ruby
2018 2nd International Conference on Inventive Systems and Control (ICISC)
Internet of Things and Big Data Technologies for Next Generation Healthcare
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How to Publish Data
Data Intelligence and Cognitive Informatics
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ICISC 2018 conference will

provide an outstanding international forum for students, professors and tech enthusiast from all over the world to share ideas and achievements

in the theory and practice of all areas of machines, systems and control Presentations should highlight inventive systems as a concept that combines theoretical research and applications in the field of machines, systems and control Papers from all areas of Engineering and Technology are invited

Practical Java Machine Learning Advances in Computing, Informatics, Networking and Cybersecurity This book presents an overview of the latest

smart transportation systems, IoV connectivity frameworks, issues of security and safety in VANETs, future developments in the IoV, technical solutions to address key challenges, and other related topics. A connected vehicle is a vehicle equipped with Internet access and wireless LAN, which allows the sharing of data through various devices, inside as well as outside the vehicle. The ad-hoc network of such vehicles, often referred to as VANET or the Internet of

vehicles (IoV), is an application of IoT technology, and may be regarded as an integration of three types of networks: inter-vehicle, intra-vehicle, and vehicular mobile networks. VANET involves several varieties of vehicle connectivity mechanisms, including vehicle-to-infrastructure (V2I), vehicle-to-vehicle (V2V), vehicle-to-cloud (V2C), and vehicle-to-everything (V2X). According to one survey, it is expected that there will be approximately 380

million connected cars on the roads by 2020. IoV is an important aspect of the new vision for smart transportation. The book is divided into three parts: examining the evolution of IoV (basic concepts, principles, technologies, and architectures), connectivity of vehicles in the IoT (protocols, frameworks, and methodologies), connected vehicle environments and advanced topics in VANETs (security and safety issues, autonomous operations, machine

learning, sensor technology, and AI). By providing scientific contributions and workable suggestions from researchers and practitioners in the areas of IoT, IoV, and security, this valuable reference aims to extend the body of existing knowledge. Emerging Technologies in Data Mining and Information Security
KHANNA PUBLISHING
The Internet of Things (IoT) is one of the core technologies of current and future information and communications

technology (ICT) sectors. IoT technologies will be deployed in numerous industries, including health, transport, smart cities, utility sectors, environment, security, and many other areas. In a manner suitable to a broad range of readers, this book introduces various key IoT technologies focusing on algorithms, process algebra, network architecture, energy harvesting, wireless communications, and network security. It presents IoT system

design techniques, international IoT standards, and recent research outcomes relevant to the IoT system developments and provides existing and emerging solutions to the design and development of IoT platforms for multi-sector industries, particularly for Industry 4.0. The book also addresses some of the regulatory issues and design challenges related to IoT system deployments and proposes guidelines for possible future

applications. *Trends and Applications in Information Systems and Technologies* Apress This book systematically introduces the Brain in Traditional Chinese Medicine (TCM) and its acupuncture treatments. It discusses the origin and development of the TCM Brain theory, and presents current research on brain and acupuncture, the unique brain related techniques such as scalp acupuncture and Dao-qi technique, the new developing acupuncture treatment methods for

brain-related conditions, such as stroke, Parkinson's, dementia, Alzheimer's disease, multiple sclerosis, traumatic brain injury, autism, cerebral palsy and depression, anxiety, bipolar disorder among others. This book is of interest to TCM and acupuncture practitioners in the West, as well as acupuncture researchers and lecturers. It gives a new understanding of the brain and treatments for brain-related conditions from a complementary medicine point of view.

Mobile Technologies and Applications for the Internet of Things
Springer Nature
This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and

industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers and case studies related to all the areas of data mining, machine learning, Internet of things (IoT) and information security.

EMERGING TECHNOLOGIES IN DATA MINING AND INFORMATION SECURITY

MIT Press
Use Service Workers to

Turbocharge Your Web Apps “You have made an excellent decision in picking up this book. If I was just starting on my learning path to mastery of Progressive Web Apps, there are not many folks I would trust more to get me there than John.”
—Simon MacDonald, Developer Advocate, Adobe Software
developers have two options for the apps they build: native apps targeting a specific device or web apps that run on any device. Building native apps is

challenging, especially when your app targets multiple system types—i.e., desktop computers, smartphones, televisions—because user experience varies dramatically across devices. Service Workers—a relatively new technology—make it easier for web apps to bridge the gap between native and web capabilities. In *Learning Progressive Web Apps*, author John M. Wargo demonstrates how to use Service Workers to enhance the capabilities

of a web app to create Progressive Web Apps (PWA). He focuses on the technologies that enable PWAs and how to use those technologies to enhance your web apps to deliver a more native-like experience. Build web apps a user can easily install on their local system and that work offline or on low-quality networks Utilize caching strategies that give you control over which app resources are cached and when Deliver background processing in a web application Implement

push notifications that enable an app to easily engage with users or trigger action from a remote server Throughout the book, Wargo introduces each core concept and illustrates the implementation of each capability through several complete, operational examples. You'll start with simple web apps, then incrementally expand and extend them with state-of-the-art features. All example source code is available on GitHub, and additional resources are

available on the author's companion site, learningpwa.com. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE, DATA SCIENCE AND CLOUD COMPUTING

Springer Nature
This two-volume set

LNICST 335 and 336 constitutes the post-conference proceedings of the 16th International Conference on Security and Privacy in Communication Networks, SecureComm 2020, held in Washington, DC, USA, in October 2020. The conference was held virtually due to COVID-19 pandemic. The 60 full papers were carefully reviewed and selected from 120 submissions. The papers focus on the latest scientific research results in security and privacy in wired, mobile,

hybrid and ad hoc networks, in IoT technologies, in cyber-physical systems, in next-generation communication systems in web and systems security and in pervasive and ubiquitous computing.

MASTERING PYTHON

Springer Nature
Clean water is one of the most important natural resources on earth. Wastewater, which is spent water, is also a valuable natural resource. However, wastewater may

contain many contaminants and cannot be released back into the environment until the contaminants are removed. Untreated wastewater and inadequately treated wastewater may have a detrimental effect on the environment and has a harmful effect on human health. Water quality engineering addresses the sources, transport and treatment of chemical and microbiological contaminants that affect water. Objectives for the treatment of wastewater

are that the treated wastewater can meet national effluent standards for the protection of the environment and the protection of public health. This book, which is based on the Special Issue, includes contributions on advanced technologies applied to the treatment of municipal and industrial wastewater and sludge. The book deals with recent advances in municipal wastewater, industrial wastewater, and sludge treatment

technologies, health effects of municipal wastewater, risk management, energy efficient wastewater treatment, water sustainability, water reuse and resource recovery. [Sustainable Smart Cities and Territories](#) Springer Nature
Over the past few years, Internet of Things has brought great changes to the world. Reports show that, the number of IoT devices is expected to reach 10 billion units within the next three years. The number will

continue to rise and wildly use as infrastructure and housewares with each passing day, Therefore, ensuring the safe and stable operation of IoT devices has become more important for IoT manufacturers. Generally, four key aspects are involved in security risks when users use typical IoT products such as routers, smart speakers, and in-car entertainment systems, which are cloud, terminal, mobile device applications, and communication data. Security issues

concerning any of the four may lead to the leakage of user sensitive data. Another problem is that most IoT devices are upgraded less frequently, which leads it is difficult to resolve legacy security risks in short term. In order to cope with such complex security risks, Security Companies in China, such as Qihoo 360, Xiaomi, Alibaba and Tencent, and companies in United States, e.g. Amazon, Google, Microsoft and some other companies have invested in security teams to

conduct research and analyses, the findings they shared let the public become more aware of IoT device security-related risks. Currently, many IoT product suppliers have begun hiring equipment evaluation services and purchasing security protection products. As a direct participant in the IoT ecological security research project, I would like to introduce the book to anyone who is a beginner that is willing to start the IoT journey, practitioners in the IoT ecosystem, and

practitioners in the security industry. This book provides beginners with key theories and methods for IoT device penetration testing; explains various tools and techniques for hardware, firmware and wireless protocol analysis; and explains how to design a secure IoT device system, while providing relevant code details.

Security and Privacy in Communication Networks

First Rank Publishing

This book offers a holistic approach to the Internet of Things (IoT) model,

covering both the technologies and their applications, focusing on uniquely identifiable objects and their virtual representations in an Internet-like structure. The authors add to the rapid growth in research on IoT communications and networks, confirming the scalability and broad reach of the core concepts. The book is filled with examples of innovative applications and real-world case studies. The authors also address the business, social, and legal aspects

of the Internet of Things and explore the critical topics of security and privacy and their challenges for both individuals and organizations. The contributions are from international experts in academia, industry, and research.

[IoT Projects with Bluetooth Low Energy](#)

Springer Nature

Plan how to build a better app, grow it into a business, and earn money from your hard work using Firebase. In this book, Laurence Moroney, Staff

Developer Advocate at Google, takes you through each of the 15 Firebase technologies, showing you how to use them with concrete examples. You'll see how to build cross-platform apps with the three pillars of the Firebase platform: technologies to help you develop apps with a real-time database, remote configuration, cloud messaging, and more; grow your apps with user sharing, search integration, analytics, and more; and earn from your apps with in-app

advertising. After reading *The Definitive Guide to Firebase*, you'll come away empowered to make the most of this technology that helps you build better cross-platform mobile apps using either native Android or JavaScript-based web apps and effectively deploy them in a cloud environment. *What You'll Learn* Use the real-time database for a codeless middleware that gives online and offline data for syncing across your users' devices *Master Firebase Cloud*

Messaging, a technology that delivers to connected devices in less than 500ms *Grow your app organically with technologies such as App Indexing, App Invites, and Dynamic Links* *Understand problems when they arise with crash reporting* *Fix user problems without direct access to users' devices* *Tie it all together with analytics that give you great intelligence about how users interact with your app* *Who This Book Is For* Experienced Android, mobile app developers

new to Firebase. This book is also for experienced web developers looking to build and deploy web apps for smartphones and tablets, too, who may be new or less experienced with mobile programming. *Handbook of Medical and Healthcare Technologies* Pearson Education
 This book 'Introduction to Computing and Problem Solving with Python' will help every student, teacher and researcher to understand the computing basics and advanced

Python Programming language. The Python programming topics include the reserved keywords, identifiers, variables, operators, data types and their operations, flow control techniques which include decision making and looping, modules, files and exception handling techniques. Advanced topics like Python regular expressions, Database Programming and Object Oriented Programming concepts are also covered in detail. All chapters have worked

out programs, illustrations, review and frequently asked interview questions. The simple style of presentation makes this a friend for self-learners. More than 300 solved lab exercises available in this book is tested in Python 3.4.3 version for Windows. The book covers syllabus for more than 35 International Universities and 45 Indian universities like Dr. APJ Abdul Kalam Technological University, Christ University, Savitribai Phule Pune University,

University of Delhi,
University of Calicut,
Mahatma Gandhi
University, University of
Mumbai, AICTE, CBSE,
MIT, University of Virginia,
University of Chicago,
University of Toronto,
Technical University of
Denmark etc.

Design by Numbers CRC
Press

This comprehensive book
focuses on better big-data
security for healthcare
organizations. Following
an extensive introduction
to the Internet of Things
(IoT) in healthcare
including challenging

topics and scenarios, it
offers an in-depth analysis
of medical body area
networks with the 5th
generation of IoT
communication
technology along with its
nanotechnology. It also
describes a novel
strategic framework and
computationally
intelligent model to
measure possible security
vulnerabilities in the
context of e-health.
Moreover, the book
addresses healthcare
systems that handle large
volumes of data driven by
patients' records and

health/personal
information, including big-
data-based knowledge
management systems to
support clinical decisions.
Several of the issues
faced in
storing/processing big
data are presented along
with the available tools,
technologies and
algorithms to deal with
those problems as well as
a case study in healthcare
analytics. Addressing
trust, privacy, and
security issues as well as
the IoT and big-data
challenges, the book
highlights the advances in

the field to guide engineers developing different IoT devices and evaluating the performance of different IoT techniques. Additionally, it explores the impact of such technologies on public, private, community, and hybrid scenarios in healthcare. This book offers professionals, scientists and engineers the latest technologies, techniques, and strategies for IoT and big data. *Acupuncture for Brain* Springer Nature
This book is composed of

a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and

technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big

Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications. *Design Patterns in Ruby* Springer Nature
 Advances in Computing, Informatics, Networking and CybersecuritySpringer Nature
 2018 2nd International

Conference on Inventive Systems and Control (ICISC) Addison-Wesley Professional
 This book equips readers to understand a complex range of healthcare products that are used to diagnose, monitor, and treat diseases or medical conditions affecting humans. The first part of the book presents medical technologies such as medical information retrieval, tissue engineering techniques, 3D medical imaging, nanotechnology innovations in medicine,

medical wireless sensor networks, and knowledge mining techniques in medicine. The second half of the book focuses on healthcare technologies including prediction hospital readmission risk, modeling e-health framework, personal Web in healthcare, security issues for medical records, and personalized services in healthcare. The contributors are leading world researchers who share their innovations, making this handbook the definitive resource on these topics.

Handbook of Medical and Healthcare Technologies is intended for a wide audience including academicians, designers, developers, researchers and advanced-level students. It is also valuable for business managers, entrepreneurs, and investors within the medical and healthcare industries.

Springer Science & Business Media

An insightful guide to learning the Go programming language
About This Book Insightful

coverage of Go programming syntax, constructs, and idioms to help you understand Go code effectively Push your Go skills, with topics such as, data types, channels, concurrency, object-oriented Go, testing, and network programming Each chapter provides working code samples that are designed to help reader quickly understand respective topic Who This Book Is For If you have prior exposure to programming and are interested in learning the Go programming

language, this book is designed for you. It will quickly run you through the basics of programming to let you exploit a number of features offered by Go programming language. What You Will Learn Install and configure the Go development environment to quickly get started with your first program. Use the basic elements of the language including source code structure, variables, constants, and control flow primitives to quickly get started with Go Gain

practical insight into the use of Go's type system including basic and composite types such as maps, slices, and structs. Use interface types and techniques such as embedding to create idiomatic object-oriented programs in Go. Develop effective functions that are encapsulated in well-organized package structures with support for error handling and panic recovery. Implement goroutine, channels, and other concurrency primitives to write highly-concurrent

and safe Go code Write tested and benchmarked code using Go's built test tools Access OS resources by calling C libraries and interact with program environment at runtime In Detail The Go programming language has firmly established itself as a favorite for building complex and scalable system applications. Go offers a direct and practical approach to programming that let programmers write correct and predictable code using concurrency idioms and a

full-featured standard library. This is a step-by-step, practical guide full of real world examples to help you get started with Go in no time at all. We start off by understanding the fundamentals of Go, followed by a detailed description of the Go data types, program structures and Maps. After this, you learn how to use Go concurrency idioms to avoid pitfalls and create programs that are exact in expected behavior. Next, you will be familiarized with the tools and libraries that are

available in Go for writing and exercising tests, benchmarking, and code coverage. Finally, you will be able to utilize some of the most important features of GO such as, Network Programming and OS integration to build efficient applications. All the concepts are explained in a crisp and concise manner and by the end of this book; you would be able to create highly efficient programs that you can deploy over cloud. Style and approach
The book is written to

serve as a reader-friendly step-by-step guide to learning the Go programming language. Each topic is sequentially introduced to build on previous materials covered. Every concept is introduced with easy-to-follow code examples that focus on maximizing the understanding of the topic at hand.

INTERNET OF THINGS AND BIG DATA TECHNOLOGIES FOR NEXT GENERATION

HEALTHCARE

Packt Publishing Ltd
This book comprises the proceedings of the International Conference on VLSI & Microwave and Wireless Technologies (ICVMWT-2021). The book includes peer-reviewed papers on the core technological developments in emerging fields like wireless communication, RF microwave/radar, VLSI, optical communication, etc. The book will serve as a valuable reference resource for academics

and researchers across the globe.

Techno-Societal 2020

Packt Publishing Ltd

This is a practical, hands-on book, with a lot of code and images. It presents the real code that generates every image and describes almost every single line of it, so that you know exactly what's going on.

Introductory, descriptive, and theoretical parts are mixed with examples, so that reading and understanding them is easy. All of the examples build gradually with code

snippets, their explanations, and plot images where necessary with the complete code and output presented at the end. This book is essentially for Python developers who have a good knowledge of Python; no knowledge of Matplotlib is required. You will be creating 2D plots using Matplotlib in no time at all.

[How to Publish Data](#) Packt Publishing Ltd

This book explores potentially disruptive and transformative healthcare-specific use

cases made possible by the latest developments in Internet of Things (IoT) technology and Cyber-Physical Systems (CPS). Healthcare data can be subjected to a range of different investigations in order to extract highly useful and usable intelligence for the automation of traditionally manual tasks. In addition, next-generation healthcare applications can be enhanced by integrating the latest knowledge discovery and dissemination tools. These sophisticated, smart

healthcare applications are possible thanks to a growing ecosystem of healthcare sensors and actuators, new ad hoc and application-specific sensor and actuator networks,

and advances in data capture, processing, storage, and mining. Such applications also take advantage of state-of-the-art machine and deep

learning algorithms, major strides in artificial and ambient intelligence, and rapid improvements in the stability and maturity of mobile, social, and edge computing models.

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