

Khaled AlKharashi

IoT Apps Developer

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Alexandria, Egypt

IoT Developer with expertise in embedded systems, microcontrollers, and web-based IoT applications. Hands-on experience with Arduino, Raspberry Pi, Python, and C for developing connected devices. Skilled in integrating IoT systems with web platforms using MQTT, WebSockets, and cloud solutions. Background in electronics and networking provides a deep understanding of device communication.

Work Experience

Full Stack Web Developer

Jan 2024 - Feb 2025

Tax Consultancy | United Arab Emirates

Developed dynamic, high-performance web applications using Next.js and Node.js.
Integrated APIs for real-time data processing, improving user experience.
Built authentication and authorization systems with JWT & OAuth.
Digitalization, Agile, Microservices, DevOps concepts and methodology in mind.

Network & IoT Support Engineer

Jul 2022 - Jun 2024

WE, ISP Telecom Company | Egypt, Alexandria, Smart Village

Managed network physical/logical troubleshooting and performance optimization.
Data/Network Connection - Voice/Landlines,
Assisted in IoT network configurations for smart devices.
Configure, Implement VOIP Based on Linux OS End To End System
Implement Terminals - IP Terminals - IP Phones.
Internal Integrate with IP Phones/Terminals, Yeaster S/P-Series, Gateway.
And with External System [Gateway - Trunks - API Provider],
Handling inbound and outbound connection
Network/Telecom protocols: SIP Trunking, TCP/IP, DNS, DHCP, NAT, VLAN, QoS.
VoIP Technologies: Asterisk, Traditional PBX, Unified Communications, FreePBX, Avaya, 3CX.

IoT Apps Developer

Jul 2020 - Aug 2022

ITI | Egypt, Mansoura

Developed smart automation systems using ESP32/Protues /Arduino PIC16F87XA Micro-Controller / C Ansi/MikroC & Node.js.
Built an IoT data dashboard for real-time sensor monitoring.
Programmed firmware for microcontrollers in C and Python.

Electronics Technician

Jun 2017 - May 2020

Al-Araby Group | Egypt

Dealing with Analog/Digital Circuits AC/DC, tracking/indicate faults and Maintenance.
Measurement and Soldering Electronics Components Pinned / SMD.
Switch mode power supply SMPS - LCD/LED Screens and CRT TV, Signal reciever,
Sound devices Repairing PC and Laptop in Hardware and Software.
Repaired and optimized electronic circuits and embedded systems.

Core Skills

IoT Enablement platforms, Linux, Low level programming, Node.js, C Language, MongoDB, MySQL, JavaScript, Typescript, React.js, Apache web server, DevOps, Microservices, Dockerization, Rest/Restful API, Python, Django, Internet Of Things, Embedded system, Electronics, Network, VOIP, IP Terminals, Bash scripting, SIP, WebHooks, Google Cloud IoT Core, MQTT, HTTP

Education

ITI, Information Technology Institution

Jul 2020 - Aug 2021

Tech Diploma Software Engineering

Relevant Coursework: Internet Of Things, Embedded Systems, Full Stack Web Development, Industrial IoT on Google Cloud

Education University of Egypt

Sep 2011 - Jul 2016

Bachelor, Higher Diploma Management, Economy, Statistics, Education, Psychology, Sociology