

Karim Kabbara

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Parker, Colorado • 720-440-0122

EDUCATION

Bachelor of Science in Computer Science

University of Colorado Denver

May 2023

GPA: 3.56/4.00

CERTIFICATIONS

Cisco Certified Network Associate (CCNA 200-301)

July 2023

CompTIA Security+ (SY0-601)

June 2023

EXPERIENCE

Embedded Firmware / Software Engineer

September 2023 - Present

Geotech Environmental Equipment, Inc.

Denver, CO

- Design and implement innovative, high-performance embedded systems for environmental sampling and remediation applications.
- Utilize Node.js to write code on Programmable Logic Controllers (PLCs), enabling seamless integration of input signals from components and precise control of output signals, optimizing operational efficiency by 20%.
- Conduct in-depth testing of system performance and reliability to ensure flawless product quality.
- Develop the Geotech website using Python and Angular JS, providing the customer with real-time access to critical system information such as input/output states, and overall system health, allowing remote monitoring and control of systems.

Teacher Assistant

January 2023 – May 2023

University of Colorado Denver

Denver, CO

- Collaborated with a team of two to develop the courses, Computer Security, and Secure Networking and Programming, for the new Cybersecurity major at CU Denver.
- Developed assignments for topics including: an introduction to penetration testing, SQL injections, cloud VM setup using GCP, packet capture and analysis with Wireshark, cryptography, and validation.

Sales Expert

February 2019 – August 2020

Best Buy

Parker, CO

- Utilized open-ended questions to provide tailored solutions for clients, resulting in a consistent increase in client satisfaction and a decrease in product return rate.
- Streamlined complete technology solutions for clients, including computer setups, mobile devices, home theater systems, and peripherals, resulting in an increase in revenue generation and client loyalty.

PROJECTS

Network Simulator

- Designed a network simulator to create and test network topologies using PCs, switches, and routers.
- Developed a command line interface for implementing device configurations such as IP addresses, default gateways, VLANs, DHCP servers and clients, and static routes.
- Implemented logic for networking concepts including ICMP pings, ARP process, DHCP, and routing.

Brady Public Humanities Archive (Visit: bradyhumanities.org/)

- Collaborated with a 3-person team to develop a digital archive for worldwide humanities projects.
- Implemented website using AWS LightSail, MySQL, Nginx, Django, and the MapBox API.
- Designed features including project submission, an interactive project map, and admin features such as project verification, and overall website management.

SKILLS

Python, JavaScript, Node.js, RESTful API, JSON, Embedded Systems, MQTT, C++, Java, SQL, Linux OS, AWS, GCP, Nginx, HTML, Django, Tailwind CSS, PHP, Cisco IOS, OSI Model, Routing, Switching.