

Karim Kabbara

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EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Science

University of Colorado Denver

May 2023

GPA: 3.56/4.00

Cisco Certified Network Associate (CCNA 200-301)

July 2023

CompTIA Security+ (SY0-601)

June 2023

EXPERIENCE

Software / Embedded Firmware Engineer

September 2023 - Present

Geotech Environmental Equipment, Inc.

Denver, CO

- Develop the Geotech website using Python and AngularJS, providing customers with real-time access to system information and graphical representations of data point trends, leading to a 20% decrease in tech support calls.
- Led the revamping of the Geotech customer website by redesigning the UI that displays all system information and the remote-control commands, leading to a better user experience and clearer system breakdown.
- Utilize JavaScript (Node.js) to program embedded systems that read analog and digital input signals from physical devices to control system operations using serial communication and analog / digital outputs.
- Apply Agile methodologies to plan, design, and test every feature of a product, allowing smooth extensibility, high performance, and flawless product quality.

PROJECTS

Classical Music Library

- Developed a comprehensive classical music library website featuring detailed composer profiles, extensive catalogs of their works, and an integrated music player.
- Implemented a searchable and sortable catalog that includes detailed metadata such as title, genre, and song duration for musical works.
- Designed an intuitive user interface using ReactJS to facilitate easy navigation and exploration of composers and their works.
- Leveraged Express.js for the backend, integrated ChatGPT API to generate unique composer descriptions and Google Maps API for composer birthplaces.
- Utilized Supabase for user authentication, Google OAuth, and PostgreSQL database for secure and efficient data management.

Network Simulator

- Created a Python and Tkinter network simulator for testing network topologies with 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, TypeScript, ReactJS, AngularJS, Supabase, PostgreSQL, Node.js, Express.js, EJS, RESTful API, Nginx, HTML, CSS, Tailwind, Django, CSS, Git, Embedded Systems, IoT, IIoT, MQTT, Agile, C++, Java, SQL, AWS, GCP.