Karim Kabbara

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EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Science   **May 2023**
University of Colorado Denver   *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 AngularJS, providing customers with real-time access to system information and enabling a seamless experience for remotely monitoring and controlling embedded systems.
- Led the revamp of the Geotech telemetry website, redesigning and modernizing the UI. This improved the user experience, resulting in a 10% decrease in tech support calls.
- Utilize JavaScript (Node.js) to program embedded systems that are 100% fault-tolerant and autonomous, requiring minimal human intervention for complete system operation.
- Apply Agile methodologies to plan, design, and test every feature of a product, ensuring smooth extensibility, high performance, and flawless product quality.

PROJECTS

Classical Music Library

- Developed a comprehensive classical music library website featuring over 200 detailed composer profiles, extensive catalogs of their works, and an integrated music player.
- Utilized ReactJS to design a single-page user experience, allowing users to explore the website with minimal wait time.
- Leveraged the ChatGPT API to generate unique composer descriptions and the Google Maps API for an interactive map of composer birthplaces.
- Implemented Supabase and Google OAuth for user authentication and utilized a PostgreSQL database for secure and efficient data querying.

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.