

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 Engineer

September 2023 - Present

Geotech Environmental Equipment, Inc.

Denver, CO

- Led the development of the Geotech customer support site using ReactJS, delivering a seamless and intuitive platform for customers to access real-time system data and remotely monitor and control embedded systems with ease, leading to an 8% reduction in technical support calls.
- Design user-friendly, responsive interfaces for the Geotech customer support site using TailwindCSS and JavaScript, improving accessibility and usability across all screen sizes.
- Leveraged Node to program embedded systems that achieve extremely high fault tolerance and autonomy.
- Apply Agile methodologies to streamline the development process, promote collaboration, and ensure timely delivery of high-quality features that meet performance and quality standards.

PROJECTS

Classical Music Library

- Developed a comprehensive classical music library website with 200+ composer profiles, over 25,000 classical works, and an integrated music player.
- Built a ReactJS single-page experience for efficient navigation and minimal loading times, with a scalable Express.js backend for handling user requests.
- Integrated the ChatGPT API to generate unique composer descriptions and trivia questions and integrated the Google Maps API for an interactive map of composer birthplaces.
- Leveraged Supabase authentication and Google OAuth and PostgreSQL with Row-Level Security.
- Deployed a CI/CD pipeline using Google Cloud Build and utilized Google Cloud Run to enable seamless integration of new features and updates.

Network Simulator

- Created a Python and Tkinter network simulator, inspired by Cisco Packet Tracer, 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

- 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

JavaScript, TypeScript, ReactJS, Supabase, PostgreSQL, Node.js, Express.js, RESTful API, Python, Nginx, HTML, CSS, Tailwind, Django, CSS, Git, Agile, MySQL, AWS, GCP.