Graham MacFarquhar

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SKILLS

Languages - Javascript, TypeScript, Python, Java, C, SQL, GraphQL, Bash
Libraries / Frameworks - Node.js, Express, React, Flask, Django, WebSocket, PostgreSQL, MySQL, SQLAlchemy, HTML5, CSS3, JQuery, Bootstrap, Jest, Selenium, JWT, OAuth, Bcrypt
Tools - VSCode, Github, GitLab, AWS, Heroku, Figma, Photoshop

EXPERIENCE

Lead Software Engineer   Oct 2023 – Dec 2023
PEEL - Node.js, Express, React, SQL, AWS, Heroku, Figma   Remote
- Engineered a REST API with Node.js, and Express, adding functionality and user interaction.
- Designed UI with Figma and converted designs into React components for a visually appealing interface.
- Integrated Amazon S3 for optimized storage of content, reducing data retrieval times by 20% and enhancing scalability and performance.

Full Stack Development Intern   June 2023 – July 2023
Foqal.io - TypeScript, React.js, GraphQL, Agile Development   Remote
- Utilized GraphQL to enhance user group functionality, and improve task assignment capabilities.
- Conducted a comprehensive refactoring of variable assignments in Request-Type and Tag workflows, achieving a 70% improvement in code efficiency with TypeScript.
- Debugged and enhanced GraphQL queries for a seamless user experience, ensuring backward compatibility and efficient data retrieval.

Research Assistant   Aug 2018 – May 2020
Memory Lab and CERLAB at Carnegie Mellon - Python, CSS3, HTML5   Pittsburgh, PA
- Reduced audio processing time by 50% in Audacity through Python scripting, showing Python proficiency.
- Upgraded Memory-Lab website's front end using CSS and HTML, enhancing user experience.
- Developed a Raspberry Pi-based app for sleep apnea audio data, demonstrating innovation.
- Successfully demonstrated the developed device to clients, showcasing communication skills.

TECHNICAL PROJECTS

Festy   Live Demo Github
Full Stack Playlist Management Application - Node.js, Express, PostgreSQL, AWS (EC2, RDS), Nginx, Spotify Web API

Warbler   Live Demo Github
Full Stack Social Media Application - Python, SQLAlchemy, Bcrypt, WTForms, Jinja

Jobly   Live Demo Github
Full Stack Job Board Application - JS, React, Bootstrap, Node.js, Express, JWT, Bcrypt, JSONSchema

EDUCATION

Carnegie Mellon University   2022
B.S. - Electrical and Computer Engineering   Pittsburgh, PA

Rithm School   2023
Full Stack Web Development Course   San Francisco, CA