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 robust REST API, leveraging Node.js, Express, and PostgreSQL, enhancing system functionality and user experience.
- Executed UI/UX design using Figma, and translated designs seamlessly into responsive React components for a cohesive and visually appealing interface.
- Implemented Amazon S3 for optimized storage of user-generated 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

- Led Agile development practices in the implementation of a pivotal feature, utilizing GraphQL to enhance user group functionality, elevating the platform's task assignment capabilities.
- Conducted a comprehensive refactoring of variable assignments in Request-Type workflows 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

- Applied external Python scripts for audio file processing in Audacity, contributing to a 50% reduction in data processing time, showcasing proficiency in Python scripting for data manipulation.
- Maintained the front end of the Memory-Lab website, utilizing CSS and HTML expertise for a polished and user-friendly interface.
- Developed a Raspberry Pi-based Python application for recording audio data from sleep apnea patients, demonstrating technical innovation.
- Successfully presented a functional prototype of the developed device to potential clients, demonstrating clear and effective communication.

EDUCATION

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

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