Graham MacFarquhar

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TECHNICAL SKILLS

Languages - Javascript, TypeScript, Python, SQL, GraphQL, Java, C, HTML, CSS
Libraries / Frameworks - Node, Express, React, Flask, Django, PostgreSQL, SQLAlchemy, JQuery, Jest
Tools - VSCode, Git, Github, AWS, Heroku, Figma, Photoshop

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   June 2023 – July 2023
Foqal.io - Customer support software with integration to Slack   Remote Position
- Implemented a high-priority feature to allow the assignment of user groups to queues.
- Refactored dynamic assignment of field variables in Request-Type workflows and Tag workflows.
- Debugged and amended GraphQL queries while maintaining backward compatibility.

Data Analyst   Aug 2018 – May 2019
Computer Engineering and Robotics Lab at Carnegie Mellon   Pittsburgh, PA
- Developed a Python application on Raspberry Pi to record audio data of sleep apnea patients.
- Collaborated closely with a team of four graduate students in Computer Engineering and Robotics.
- Demonstrated the prototype and presented data to Philips Representatives.

Research Assistant   Aug 2019 – May 2020
Memory Lab at Carnegie Mellon   Pittsburgh, PA
- Utilized external Python scripts to process audio files in Audacity, enhancing research productivity.
- Maintained the Memory-Lab website front-end, leveraging prior knowledge of CSS and HTML.
- Fostered effective communication and collaboration within the research team by organizing the Slack workspace and facilitating productive meetings.

TECHNICAL PROJECTS

Jobly
Full-stack Job Board Application   Live Demo | Github
- Developed backend using a test-driven development approach, achieving 100% coverage.
- Implemented authorization and authentication using JSON Web Tokens.
- Designed object-oriented models to encapsulate database operations and produce SQL statements.
- Validated API requests using JSON Schema to ensure data adheres to type and format constraints.

Warbler
Full-stack Social Media Application   Live Demo | Github
- Developed user-following and message-liking features using many-to-many relationships with SQLAlchemy.
- Conducted unit and integration tests for HTML templates (Jinja), achieving 100% coverage.
- Implemented user authentication and authorization using the Bcrypt hashing algorithm.

EDUCATION

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

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