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
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 highly requested feature for queues such that groups of users may be assigned to a queue.
● Refactored dynamic assignment of field variables in Request-Type workflows and Tag workflows.
● Debugged and amended GraphQL queries while maintaining backward compatibility.

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.

ADDITIONAL WORK EXPERIENCE

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 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.

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