Graham MacFarquhar

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TECHNICAL SKILLS

Languages - Javascript, TypeScript, Python, Java, C, SQL, GraphQL, HTML5, CSS3
Libraries / Frameworks - Node.js, Express, React, Flask, Django, PostgreSQL, SQLAlchemy, JQuery, Jest
Tools - VSCode, Github, AWS, Heroku, Figma, Photoshop

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   June 2023 – July 2023
Foqal.io - TypeScript, React.js, GraphQL   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.

Research Assistant   Aug 2019 – May 2020
Memory Lab at Carnegie Mellon - Python, CSS3, HTML5   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.

Data Analyst   Aug 2018 – May 2019
Computer Engineering and Robotics Lab at Carnegie Mellon - Python, Raspberry Pi   Pittsburgh, PA
- Developed a Python application on Raspberry Pi to record audio data of sleep apnea patients.
- Collaborated closely with a team of graduate student engineers.
- Demonstrated a functional prototype and pitched our device to future clients.

TECHNICAL PROJECTS

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

Jobly
Full-stack Job Board Application - JS, React, Bootstrap, Node.js, Express, JWT, Bcrypt   Live Demo | Github
- Deployed a REST API 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.

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