

# 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

### Lead Software Engineer

Oct 2023 – Present

*PEEL - Node.js, Express, React, PostgreSQL, AWS, Heroku, Figma*

Remote

- Built an API with a user profile system, OAuth, transactions, full-text search, and more.
- Designed UI/UX with Figma and transposed designs to React.js components.
- Integrated Stripe webhooks for payment assurance and Amazon S3 storage for photos.

### Full Stack Development Intern

June 2023 – July 2023

*Foqal.io - TypeScript, React.js, GraphQL*

Remote

- Implemented a high-priority feature to allow the assignment of user groups to queues.
- Refactored dynamic assignment of variables in Request-Type workflows and Tag workflows.
- Debugged and amended GraphQL queries while maintaining backward compatibility.

### Research Assistant

Aug 2018 – May 2020

*Memory Lab and CERLAB at Carnegie Mellon - Python, CSS3, HTML5*

Pittsburgh, PA

- Utilized external Python scripts to process audio files in Audacity.
- Developed a Python application on Raspberry Pi to record audio data of sleep apnea patients.
- Maintained the Memory-Lab website front-end, leveraging prior knowledge of CSS and HTML.
- Demonstrated a functional prototype and pitched our device to future clients.

## TECHNICAL PROJECTS

### Warbler

*Full-stack Social Media Application - Python, SQLAlchemy, Bcrypt, WTForms, Jinja*

[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*

[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