

Robin Sheen

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Education

University of California, Berkeley

B.S. IN PHYSIOLOGY AND METABOLISM | GPA: 3.93

Berkeley, California

Graduated May 2020

Rithm School Full Stack Engineering Bootcamp

STUDENT

San Francisco, California

May 2022 - Sept 2022

Work Experience

Rithm School

SOFTWARE ENGINEER INTERN

San Francisco, CA

July 2022 - August 2022

- Created a library for storing presentations with models that included many-to-many relationships and improved site-wide searchability using Watson's full-text multi-table search options.
- **Maintained 98% test coverage** while adding new features for users and admins in the student information system (SIS).
- Built the SIS **android mobile UI** for the SIS homepage using **React Native** with **Django** backend integration.
- Resolved tickets ranging from developing scalable models and unit and integration tests to auditing the API for inconsistencies and submitted pull requests for finished tickets using Github.

Spring Fertility

CLINICAL LAB TECHNICIAN

Sunnyvale, CA

April 2021 - April 2022

- Maintained detailed records pre and post treatment for 2000+ patients in the electronic medical records system.
- Created and edited SOPs and training modules for lab procedures, reagent handling, safety protocols, and inventory.
- Performed sperm analysis and treatments with sterile technique in a fast paced environment with up to 16 patients/day.

Projects

Jobly Job Board

JAVASCRIPT, REACT, NODE.JS, POSTGRESQL

[Github </>](#)

- Designed a job searching API with full CRUD capabilities to allow users to apply to job listings posted by companies.
- Achieved **over 85% test coverage** across the entire backend between unit and integration tests.
- Developed a single page React application with protected routes to view companies and job listing components including a catch-all route to redirect 404s or nonvalid routes.
- Implemented authorization and authentication middleware using **JSON Web Tokens** and BCrypt library for encryption.

Warbler

FLASK, SQLALCHEMY, POSTGRESQL, BOOTSTRAP

[Github </>](#)

- Created a Twitter clone where users can follow other users and interact with posted messages with **90% test coverage** between unit and integration tests across the entire codebase.
- Protected user and database information from CSRF attacks through WTForm's form validation using CSRF tokens.
- Implemented authorization and authentication of Warbler users with Flask session, g object, and local storage.
- Used SQLAlchemy to dynamically query and update the database in Python using many to many relationships, and incorporated protection against SQL injection attacks in all queries.

Pix.ly

FLASK, SQLALCHEMY, POSTGRESQL, AWS S3

[Github </>](#)

- Built a CRUD web application and RESTful API backend for uploading, editing, and storing photos to a gallery.
- Used **Amazon S3** for cloud integration of photos, and the Postgres database to store extracted metadata from EXIF files.
- Improved search options and performance by adding full-text search capabilities for photos with GIN indexes for table columns that are more frequently searched.
- Incorporated Jinja to dynamically display HTML templates and forms via server side rendering.

Technical Skills

Programming Languages: JavaScript/TypeScript, Python, SQL, HTML, CSS

Frameworks, Libraries & Tools: React, React Native, Node, Express, Flask, SQLAlchemy, Django, Bootstrap

Databases Used: Postgres, Amazon S3