

Robin Sheen

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WORK EXPERIENCE

Rithm School | San Francisco, CA

July 2022-August 2022

Software Engineer Intern

- 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.

Spring Fertility

April 2021-April 2022

Clinical Lab Technician

- 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 (React, Express, PostgreSQL) [Github Link](#)

- 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 password encryption.

Warbler (Flask, SQLAlchemy, PostgreSQL) [Github Link](#)

- 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 Link](#)

- Created 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 via server side rendering.

EDUCATION

Rithm School Full Stack Engineering Bootcamp | San Francisco, CA

May 2022-Sept 2022

Student

University of California, Berkeley | Berkeley, CA

Graduated May 2020

Bachelor of Sciences: Physiology and Metabolism

GPA: 3.93

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