

Eric Sohng

Full Stack Software Engineer

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WORK EXPERIENCE

Software Engineer @ Numbers API

May 2022 - June 2022 // San Francisco, CA

- > Refactored and overhauled an outdated live codebase with 17,000 monthly visits from Express to Flask, Jinja, and PostgreSQL.
- > Audited the existing documentation to write tests, with mocks as needed, that set up Test Driven Development (TDD), which ensured the transfer of all functionalities, API response data structure, and resource routes from the old to the new REST API.
- > Streamlined large volume data transfer for 3 teams by developing a script that parses existing JSON to seed the database.
- > Maintained 100% coverage on unit and integration tests for models and routes by leveraging Test Driven Development.
- > Integrated cronjobs with Slack API to develop a bot that monitors the site and notifies a Slack channel on server faults.

Virtual Design Engineer @ Clark Construction Group, LLC

Sept 2017 - Jan 2022 // San Francisco, CA

- > 3D coordinated all underground and in-wall utilities 120 days early by leading weekly team meetings with 10+ trades.
- > Ensured 95% on-time delivery of materials by developing and managing a tracking log built on lead times and schedule.
- > Mentored 12 engineers on building coordination, 3D jobsite modeling with superintendents, and drone scanning procedures.
- > Managed up to \$40M worth of technical scopes and contracts for university laboratories, city centers, and county hospitals.
- > Worked alongside designers, architects, and engineers to implement and build design features in a constructible manner.

Mechanical Engineer @ Symmetry Surgical

Aug 2016 - May 2017 // Nashville, TN

- > Developed a next generation modular laparoscopic tool kit that reduces hospital waste and improves ergonomic comfort.
- > Reduced 72% of waste by implementing a replaceable tip and shaft. Validated design through user-feedback from surgeons.

EDUCATION

Vanderbilt University - B.E. Mechanical Engineering

Aug 2013 - May 2017 // Nashville, TN

Rithm School - Full Stack Web Development

Feb 2022 - June 2022 // San Francisco, CA

PROJECTS

Jobly - Job Board (React, Express, SQL, Surge)

[Demo](#) - [Github](#)

- > Designed and developed a JSON returning REST API backend with resources for users, jobs, companies, and applications.
- > Achieved and maintained over 80% test coverage between unit and integration tests across the entire backend.
- > Implemented authorization and authentication using JSON Web Tokens and encrypted passwords using the BCrypt library.
- > Developed a single-page-app React frontend with protected routes that allows only registered users to view jobs pages.

Warbler - Twitter Clone (Flask, Jinja, SQLAlchemy, PostgreSQL, Heroku)

[Demo](#) - [Github](#)

- > Created a Twitter clone that utilizes a RESTful API backend to allow users to add, delete, like, and unlike messages.
- > Implemented user sign up, authorization, and authentication using Flask session, local storage, and Flask global variables.
- > Leveraged SQLAlchemy to dynamically query and update the relational database using many-to-many relationships.

Pixly - Photo Editor (Flask, Jinja, SQLAlchemy, PostgreSQL, AWS S3, Heroku)

[Demo](#) - [Github](#)

- > Developed a photo editing application that utilizes file I/O and the PIL library and lets users upload, edit, and save images.
- > Leveraged AWS S3 and Postgres relational database to handle storage of large image files and EXIF metadata.
- > Implemented full text search so users can filter photos by metadata such as camera model, resolution, and GPS location.

SKILLS & INTERESTS

Programming Languages: Javascript (ES6), Typescript, Python, SQL, HTML, CSS

Libraries & Frameworks: React, Flask, Express, Bootstrap, jQuery, Node, Jest, React Testing Library

Databases & ORMs: PostgreSQL, SQLAlchemy, Amazon AWS S3

Hobbies: Snowboarding, golfing, fishing, cooking, weightlifting, woodworking