TREVOR HUDSON

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TECHNICAL SKILLS

- **Languages** - Python, JavaScript / Typescript, Java, Dart, SQL, HTML, CSS,
- **Frameworks, Libraries, and Tools** - Django, Flask, React, Node, Express, Bootstrap, SQLAlchemy, Docker
- **Databases** - PostgreSQL, AWS S3

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Intern   *January 2023 – February 2023*

Rithm School, San Francisco, CA

- Developed a new tag library for curriculum materials with models that included many-to-many and generic relations, which improved student accessibility to search for and organize similar material topics.
- Maintained **98% test coverage** while adding new features for users and admin in the student information system (SIS).
- Designed and built the SIS homepage UI for android and iOS using Flutter and Django backend integration.
- Resolved tickets ranging from developing scalable models, unit and integration tests, auditing the API for inconsistencies, and submitting pull requests for finalized tickets on GitHub.

TECHNICAL PROJECTS

Jobly *Live Demo* | *GitHub*

{Typescript / Javascript, React, Node.js, PostgreSQL}

- Designed a job searching API with full CRUD capabilities to allow users to browse and apply to jobs.
- Achieved **99% test coverage** across backend using unit and integration tests.
- Developed a single page React application with protected routes to view companies and job listings.
- Implemented authorization and authentication middleware using JSON Web Tokens and Bcrypt encryption.

Warbler *Live Demo* | *GitHub*

{Python, Flask, PostgreSQL, SQLAlchemy, Bootstrap}

- Designed a Twitter clone, where users can follow other users, post 'tweets', and interact with other posted messages.
- Achieved **89% test coverage** across backend using unit and integration tests.
- Protected user and database information from CSRF Attacks with WTForm validation using CSRF tokens.
- Implemented authorization and authentication of users with Flask sessions, g object, and local storage.
- Used SQLAlchemy to dynamically query and update the database while protecting against SQL injections.

Pix.ly *GitHub*

{Python, Flask, PostgreSQL, SQLAlchemy, AWS S3, React}

- Designed a CRUD web application and RESTful API backend for uploading, editing, and storing user images in a gallery.
- Integrated Amazon S3 for cloud storage of photos, and a PostgreSQL database for the extracted metadata from EXIF files.
- Added full-text search capabilities for photo metadata, with GIN indexes to increase performance.
- Incorporated Jinja to dynamically render HTML templates and forms via server side rendering.

ADDITIONAL WORK EXPERIENCE

Architectural Designer   *August 2021 – October 2022*

Piechota Architecture, San Francisco, CA

- Design and develop architectural projects from early concept through design development and construction.
- Prepared drawings, specifications, budgets and construction documents for client presentations and permitting.
- Developed scripts in Python / GDL to generate reusable CAD components and increase workflow efficiency across production teams.

Quality Control and Education   *June 2012 – January 2016*

Fourbarrel Coffee, San Francisco, CA

- Developed curriculum and company training materials, while implementing national quality control standards.
- Lead hands-on technical training for over 500 employees nationwide.

EDUCATION

Rithm School, *Full Stack Web Development Bootcamp, San Francisco, CA*   *January 2023*

University of California, Berkeley, *B.A. Architecture, Berkeley, CA | GPA: 3.84 High Honors*   *July 2021*