

Daniel Watson

Web Developer

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Fremont, CA

[Portfolio](#)

[Linkedin](#)

[GitHub](#)

Skills

React.js, Redux, JavaScript, HTML5, CSS3, Ruby, jQuery, SQL, PostgreSQL, AWS, Debian, Linux Sysadmin, Systemd

Projects

Tax.each.do

[live site](#) | [backend code](#) | [frontend code](#)

Git submodules, React, Redux Toolkit, Python, Pydantic, Flask, Pytest, Factoryboy, Faker, PostgreSQL, pdf-lib

Fill federal form 1040

- Automate filing of IRS federal form 1040 with pdf-lib to fill in text fields and check boxes programmatically.
- Authenticate user requests through Cross Site Request Forgery tokens generated via flask_wtf, and sent back with future requests in an X-CSRF-TOKEN header.
- Modeled realistic, fake user input through FactoryBoy for object creation, and Faker for individual fields of the objects. Tested creating and updating unique records, eliminating a class of bugs in the tests themselves.

Where da gas at?

[live site](#) | [code](#)

Google Maps API, git, unicorn, alembic, flask-migrate, pytest, delegation, leadership, kanban

Track favorite gas stations, prices, and leave comments

- Managed a team of 4 programmers, coordinating and tracking tasks via kanban board, assigned tasks to team based on prior pair programming and debugging sessions and considering the requirements of the project
- Integrated teams branches by rebasing them into a single line of history so team members could build from work of others, and the final product had all features from the whole team
- Introduced tests in the pytest framework, with python request library to make requests of the backend, giving concrete endpoint request examples for use in development of the frontend

I'll BRB

[live site](#) | [code](#)

JavaScript (JS), React.js, Redux, HTML5, Sequelize, Node.js, SQLite, Postgresql, CSS3, Debian, Systemd, Apache

Mock rental listings and reviews

- Made responsive Single Page App (SPA) using React to update Document Object Model (DOM) dynamically, and quickly to increase interactivity, and reduce full page reloads to near 0
- Implemented persistency of data via industry standard tools such as PostgreSQL for storage and Sequelize to define schema and generate SQL from Object Models defined in JavaScript, reducing complexity by 25%
- Engineered client side state management through Redux, keeping all state updates neatly organized, making 30% fewer bugs to begin with, and reducing debugging time by 90%

Experience

Computer Engineering Consultant, Watson Consulting | December 2020 - present | online

- 20+ languages including Python, Java, C, Haskell, x86, MIPS, OCaml, Racket, Prolog, JavaScript
- Boosted clients understanding of technical concepts enabling them to generate solutions independently
- hundreds of 5 star reviews, over 2000 hours of 1-on-1 online communication

Education

App Academy | January 2025 | online

Immersive software development course with focus on full stack web development

University | Spring 2008 | San Diego, CA

Bachelor of Science in Computer Science, Major, Mathematics Minor