

Aryan Azar | Software Engineer

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Skills

JavaScript, Python, React, Redux, HTML5, CSS3, SQL, SQLAlchemy, PostgreSQL, Node, Sequelize, Express, Jinja, Docker, AWS, Mocha/Chai, Heroku

Experience

Engineering Tutor CCB School, Queens College | Queens, NY (Feb 23 - Present)

- Tutor first year calculus (Calculus 1 & 2) and computer science (Intro to CS/Python) to students at Queens College.
- Create & work through problem sets and go over practice exams.

Technical Full-Stack Projects

Z.S [live](#) [github](#) | ReactJS, Redux, Flask, PostgreSQL, SQLAlchemy

- Used the **React Beautiful DnD** package to enable drag and drop functionality on the frontend while dynamically updating the state and the backend database.
- Created a database with **PostgreSQL** that features multiple connected relationships and many interconnected models to help prevent sending large JSONs every render.
- Mimicked Asana's responsive auto-save using **React's** `useState` hook then dispatched new data to the server in order to persist most content changes.
- Entire Site is can be used in two languages via **LocalStorage** and react state (English and French)

Ziba [live](#) | [github](#) | ReactJS, Redux, Flask, AWS, Socket.io, Heroku and PostgreSQL, SQLAlchemy

- Used pure **CSS** to combine pixel-perfect elements of both Instagram and Flickr to create a clean, minimalistic layout.
- Incorporated **AWS** image hosting giving users the ability to upload images from any device's local image library.
- Used the **Unsplash API** to obtain bulk seed data to create a more realistic, high-quality user experience.

Sparrow [live](#) | [github](#) | React / Redux, Flask, SQLAlchemy, Recharts / Odometer, Docker

- Used **Finnhub API** in tandem with a custom **JavaScript** algorithm to convert real-time stock candle data from an array of different time frame resolutions into graphable price/time points.
- Used **Recharts** along with **Odometer** to visualize dynamic gains/losses on individual stock/portfolio of stocks.
- Implemented custom **JavaScript frontend search** allowing users to dynamically filter results.

After Hours [live](#) | [github](#) | React / Redux, Flask, SQLAlchemy, HTML / CSS, Socket.io

- Created a custom algorithm using **React State** and **React Hooks** to simultaneously search, sort, and filter to allow for the user to quickly and efficiently locate any component on the entire site.
- Integrated server, channel, and message using **React slices of state** and backend relational queries.
- Enabled live chat using **Flask Socket IO** that allows users to receive messages without having to reload their browser in both a private and public chat room.

Education

App Academy (2022) - Full Stack Web Development

Relevant Coursework: Object-Oriented Programming (OOP), Test Driven Development (TDD), Coding Best Practices, Systems Design & Architecture, Data Structures, Algorithms, Agile / SCRUM Methodologies

University of California, San Diego (2020) - BA, Math & Economics, Public Policy

Relevant Coursework: Calculus (single, multi, linear), statistics, Project Management & Corporate Development