

Kevin Vu

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SKILLS

Python, Javascript, Typescript, Flask, Express, React, Redux, HTML, CSS, Sequelize, SQLAlchemy, SQL, SQLite3, PostgreSQL, Mocha, Pytest, Git

PROJECTS

PeakTrade (React, Redux, Python, HTML, CSS, Alpha Vantage API, Yahoo Finance API, Rechart)

[live](#) | [github](#)

A full-stack stock trading web application inspired by Robinhood, utilizing React/Redux front-end and Flask/SQLAlchemy backend

- Incorporated **React** and **Redux** to manage portfolio and group state and provide a seamless user experience for stock market transactions and group-related interactions.
- Integrated external APIs, **Alpha Vantage API** and **Yahoo Finance API**, to gather and display real-time and historical financial stock market data.
- Utilized **Recharts** and **ApexCharts.js**, modern charting library, to large amounts of data in an easy-to-understand manner and visually appealing graphs.
- Leveraged **Pytest** for **unit testing** implementing a **Test-Driven Development** approach, ensuring robustness and reliability of the codebase through comprehensive testing of individual units of code.

Hangers Academy (React, Redux, Python, HTML, CSS, Socket.IO)

[live](#) | [github](#)

A full-stack chat-based web application inspired by Discord, utilizing React/Redux front-end and Flask/SQLAlchemy backend

- Implemented **Socket.IO** library to enable real-time communication and smooth chat experience in public channels and private messaging.
- Utilized **Flask** and **SQLAlchemy** to handle backend server-side functionality such as user authentication, server/channel management and message storage.
- Developed a system for organizing and displaying private and public servers using **React Redux** state management in conjunction with **Flask-SQLAlchemy** model declaration.

AirClone (React, Redux, Express, Sequelize, HTML, CSS)

[live](#) | [github](#)

A full-stack web application inspired by Airbnb, utilizing React/Redux frontend and Express/Sequelize backend

- Utilized **Sequelize** as ORM with **PostgreSQL** to define model relationships and perform database migrations to represent data entities, such as users, spots, and reviews.
- Incorporated **Redux DevTools** to monitor and debug the state of the application in real-time.
- Built a responsive user interface using **React** and incorporated **React Router** library to handle client-side routing.
- Implemented user authentication and authorization using **JSON Web Tokens** to secure user data and protect sensitive routes.

EDUCATION

App Academy - Full Stack Software Development

August 2022 - January 2023

- Rigorous 1000-hour full stack software development course with <3% acceptance rate
- Coursework included: JavaScript, Python, React, Redux, SQL, Test Driven Development (TDD), Object Oriented Programming (OOP), algorithms, data structures, system architecture, and Git workflow.

University of Maryland, College Park - Bachelor of Science in Biology

January 2018 - May 2022

WORK EXPERIENCE

Ophthalmologist Technician

Envision Eye and Laser

July 2019 - Dec 2020

- Operated screenings including auto-refraction, OCT imaging, visual field test, and fundus photography on > 200 patients per month.
- Performed on-site and remote medical interviewing for medical history, current symptoms, and medication allergies prior to procedure or medical examination.