Kevin Vu

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SKILLS

Programming Languages: Python, Javascript, Typescript, SQL, HTML, CSS
Frameworks & Libraries: React, Redux, Flask, Express/Node.js, SQLAlchemy, Sequelize, Mocha, Pytest, Socket.IO
Databases: SQLite3, PostgreSQL, MySQL

PROJECTS

PeakTrade   (React, Redux, Python, Alpha Vantage API, Yahoo Finance API, ApexCharts, Sqlite3, PostgreSQL)   live | github
A full-stack stock trading simulator application, 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 retrieve real-time and historical financial stock market data.
- Utilized **Recharts** and **ApexCharts.js**, modern charting libraries, to display 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, Socket.IO, Sqlite3, PostgreSQL)   live | github
A full-stack chat-based web application, utilizing React/Redux front-end and Flask/SQLAlchemy backend
- Implemented **Socket.IO** library to enable real-time communication and smooth chat experience for users.
- Utilized **Flask** and **SQLAlchemy** to handle backend server-side functionality such as user authentication, server/channel management and message storage.
- Developed a system for managing private and public servers using **Redux** state management in conjunction with **Flask-SQLAlchemy** model declaration.

AirClone   (React, Redux, Express/Node.js, Sequelize, Sqlite3, PostgreSQL)   live | github
A full-stack home rental marketplace 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 UI 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.