# Kevin Vu

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## SKILLS

**Programming Languages:** Python, Javascript, Typescript, SQL, HTML, CSS/SCSS.
**Frameworks/Tools:** React, Redux, Flask, Express/Node.js, PostgreSQL, SQLite, Git, SQLAlchemy, Sequelize, Mocha, Pytest, Postman.
**Key Skills:** Object Oriented Programming, Object Relational Mapping, RESTful API, Test Driven Development, Agile Development, SCRUM, Pair Programming.

## 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*
- Implemented **Flask-Login** for **authentication** and **authorization** ensuring security and data privacy.
- Integrated external APIs, **Alpha Vantage API** and **Yahoo Finance API**, to fetch real-time and historical 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.

**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*
- Utilized custom **React** components to create a seamless UI with fully dynamic data rendering.
- Implemented **Socket.IO** library to enable real-time communication and smooth chat experience for users.
- Developed backend using **Flask** and **SQLAlchemy** to handle server-side functionality such as user authentication, server/channel management and data storage.
- Incorporated **Redux** store to manage app state, improving code maintainability and performance.

**AirClone**   (React, Redux, Express/Node.js, Sequelize, Sqlite3, PostgreSQL )         live | github
*A full-stack home rental marketplace application, utilizing React/Redux frontend and Express/Sequelize backend*
- Connected the **Express** backend to a **PostgreSQL** database, utilizing the **Sequelize ORM** to seamlessly validate data and make database queries
- Incorporated **Redux DevTools** to monitor and debug the state of the application in real-time.
- Developed and executed comprehensive tests using **Postman** to identify and resolve endpoint issues.
- 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.