

Alan Nguyen

Full-Stack Developer | Software Engineer

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SKILLS

Languages: JavaScript, Python, SQL, HTML, CSS, VBA

Frameworks: React, Redux, Express, Flask, SQLAlchemy, Socket.IO, PostgreSQL, Sequelize

Software: Excel, Alteryx

PROJECTS

Gibberish (JavaScript, React, Redux, Python, Flask, SQLAlchemy, SocketIO, HTML, CSS, PostgresQL)

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

A Slack-inspired website focused on simplicity and seamless user experience

- Enhanced **CRUD** operations by integrating **Socket.IO** with an event listener in the app.js file, ensuring efficient communication across the application
- Designed 95% of the app's **Redux** state with one primary reducer by utilizing **SQLAlchemy** relationships to associate backend user data, eliminating load times during navigation
- Leveraged **React's** component-based architecture with React props and global context to reduce the amount of API fetching resulting in a seamless interaction across various UI segments

Mango Music (JavaScript, React, Redux, Python, Flask, SQLAlchemy, AWS S3, HTML, CSS, PostgreSQL)

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

An Apple Music-inspired website tailored around uploading music and creating personal playlists

- Optimize **AWS S3** resource utilization by implementing an audio player that employed a targeted GET request for albums/playlists and stored it in **React's** global context, mitigating excessive data retrieval
- Collaborated in **code reviews** by utilizing **Git PRs** resulting in a 40% reduction in post-release bugs
- Led daily **Agile Scrums** with a focus on driving project momentum by looking for road blocks, progress, and next steps, resulting in 100% reduction of **Git** conflicts, as well as expediting project completion by 28%

EarthBnB (JavaScript, React, Redux, Express, Sequelize, HTML, CSS, PostgresQL)

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

A clone of Airbnb where users post and book down-to-earth vacation rentals

- Utilized **Sequelize's** data modeling capabilities to define and structure **PostgreSQL** database schemas, ensuring data integrity and consistency
- Integrated **Sequelize** ORM and **Express** middleware to create custom error handling into a **RESTful API** to provide a seamless frontend experience by reducing data entry errors and providing informative error messages
- Employed **JWT** for user authentication and authorization, enhancing the security of the **API**
- Implemented **CSS** Flexbox layout for a responsive and adaptive design, ensuring a seamless experience across various screen sizes

EDUCATION

Full-Stack Web Development Program - App Academy | 2023

BS Mathematics - California State Polytechnic University, Pomona | 2016

EXPERIENCE

Treasury Card Analyst (Alteryx, SQL, Excel, VBA)

Costco Wholesale Corporation

August 2019 - October 2022

- Analyzed **VBA** code and utilized it to generate **SQL** scripts in an **Alteryx** workflow to automate weekly financial report generation, reducing manual work hours by 90% in addition to minimizing errors.
- Collaborated with cross-functional teams in efforts that increased card acceptance 10% YoY by joining new data from stakeholders with **SQL** and **Alteryx** to pinpoint categories for improvements in credit card declines

Data Analyst (Excel, VBA)

The ICEE Company

August 2017 - July 2019

- Assessed maintenance logs and created data visualizations through a combination of **Excel** formulas and pivot tables to evaluate machine efficiency leading to a 10% recall
- Automated biweekly KPI reports with **VBA** to aggregate and present data insights to stakeholders resulting in 30% route efficiency