

# ERIK PHI NGUYEN

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## SKILLS

**Languages:** Javascript, TypeScript, Python, GraphQL, SQL, HTML5, CSS3, MATLAB

**Frameworks/Tools:** React, Redux, Node.js Express.js, Next.js, Flask, Sequelize, SQLAlchemy, PostgreSQL, AWS (S3, Lambda, Amplify, AppSync, CloudFormation), Docker, Websockets, Mocha, Chai, Playwright, AutoCAD, LabVIEW, Pro II

**Key Skills:** Pair Programming, Test-Driven Development (TDD), Object-Oriented Programming (OOP), Scrum Methodologies

## PROJECTS

wearbnb | (*JavaScript, React/Redux, Node.js, Express, Sequelize, PostgreSQL, CSS3*)

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- Developed a web application mimicking social media functionality utilizing React/Redux for frontend and Express for backend, enabling authorized users to manage and view brands they own and those posted by others.
- Built a reservation system using a combination of Express and React/Redux, allowing users to book and view their preferred brands, as well as costs, through a dedicated booking tab.
- Implemented a search bar using Express, enabling users to quickly locate available brands and display them in React for efficient brand selection.

Accord | (*Python, React/Redux, Flask, SQLAlchemy, CSS3, Websockets*)

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

- Spearheaded the foundation of the frontend and backend, streamlining the completion of Accord by prioritizing the development of User Authorization and Landing Page, allowing the team to focus on additional features.
- Utilized websockets (socket.io) to add live chat functionality to the project, despite a lack of prior knowledge or instruction, through 100+ hours of collaborative effort.
- Proactively improved the user experience/user interface by focusing on frontend development using React/Redux, making Accord familiar and easy to navigate for users accustomed to Discord with features like servers, channels, and live chat.

Grocery List | (*JavaScript, React/Redux, Node.js, Express.js, Sequelize, PostgreSQL, CSS3*)

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- Leveraged Redux to manage application state, and integrated the frontend with the backend API through asynchronous requests, resulting in a robust and scalable application.
- Utilized Express.js to define routes, endpoints, and HTTP request methods to create a scalable & maintainable API.
- Designed and implemented a user interface that is intuitive and user-friendly, with features such as drag-and-drop to prioritize tasks and checkboxes to mark tasks as complete.

liqr | (*JavaScript, React/Redux, Node.js, Express.js, Sequelize, PostgreSQL, CSS3*)

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

- Produced a web application clone of Flickr, utilizing React/Redux for frontend and Express for backend, enabling authorized users to manage and view their own cocktails and comments.
- Revamped the design of all buttons on the web application by implementing a "jumping" effect with global CSS, enhancing user engagement and immersion.
- Incorporated a search bar using Express for backend functionality, allowing users to easily locate and view their preferred cocktails via React/Redux on the user interface.

## EXPERIENCE

Quality Administrator

Valence Surface Technologies

Contract 2021

- Enhanced overall efficiency and turn-around by providing training to a team of line operators on advanced anodizing techniques, such as utilizing current rather than voltage for hard coat anodize, to produce parts for reputable aerospace companies including SpaceX.
- Contributed to significant cost savings for the company by conducting over 100 non-conformance reports, implementing quality control measures in-house and supervising operators on a regular basis to reduce errors.
- Developed and implemented automated Pareto charts that were utilized by all departments resulting in significant time savings and providing consistent company error reports and error percentages.

Research Assistant

Stanford University

March 2019 - April 2020

- Conducted comprehensive analysis and compilation of water quality research tests (e.g turbidity, flow rates, and tracer tests) on columns with varying oxidation states and mediums such as bio-charcoal, sand, and manganese oxide sand.
- Performed extensive literature review, identified and resolved daily operational issues, such as inadequate flow rate to columns, and conducted daily sampling and analysis of treated water.

## EDUCATION

App Academy - Full-Stack Software Engineering, Sept. 2022

California State University, Long Beach - B.S Chemical Engineering, Aug. 2020