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, DynamoDB), Sharp, 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.js, Sequelize, PostgreSQL, AWS S3, CSS3)*   **live** | **github**
- 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, Websockets, CSS3)*   **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.

Inspirational Quote Generator | *(JavaScript, Next.js, AWS services, GraphQL, Sharp, Styled Components)*   **live** | **github**
- Leveraged AWS services (Amplify, AppSync, Cognito, Lambda, and DynamoDB) to establish a robust backend infrastructure, enabling seamless data management, scalability, and enhanced performance.
- Utilized Next.js and Styled Components to architect and develop a visually engaging web application, elevating the user experience through modern frontend frameworks and UI styling
- Effectively debugged AWS Lambda functions using Amazon CloudWatch Logs, ensuring reliable execution and identifying and resolving issues promptly, enhancing the overall stability and functionality of the web application.

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

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*