

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, Object-Oriented Programming, Agile/Scrum Methodologies

PROJECTS

wearbnb | (*JavaScript, React/Redux, Node.js, Express.js, Sequelize, PostgreSQL, AWS S3, CSS3*)

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- Architected and implemented robust RESTful APIs using Node.js and Express.js for the backend, granting authorized users full CRUD capabilities to efficiently manage owned brands and interact with user-generated content in the web application boasting social media-like features, all powered by a React/Redux frontend.
- Supported the Software Development Life Cycle by providing essential contributions to system requirement analysis, design, and implementation of the web application using React/Redux (frontend) and Express.js (backend).
- 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.

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

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- Spearheaded the Software Development Life Cycle (SDLC) by leading the frontend and backend development of Accord, prioritizing crucial features like User Authorization and Landing Page for streamlined project completion.
- Troubleshooted technical problems and incorporated websockets (socket.io) to add live chat functionality, effectively showcasing problem-solving skills and fostering collaboration during the 100+ hours of development.
- Proactively improved the UI/UX 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 | (*TypeScript, Next.js, AWS services, GraphQL, Sharp, Styled Components*)

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- 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*)

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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.

EXPERIENCE

Quality Administrator

Valence Surface Technologies

Contract 2021 - 2022

- 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