ERIK PHI NGUYEN

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SKILLS

Languages: Javascript, Python, SQL, HTML5, CSS3, MATLAB
Frameworks/Tools: React, Redux, Node.js Express, Flask, Sequelize, SQLAlchemy, PostgreSQL, AWS, Docker, Websockets
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)*   **live** | **github**
- Delivered a social media-esque web application by using React/Redux for frontend, and Express/Node for backend to allow authorized users to post, edit, and delete brands that they own and view brands others have posted.
- Created a reservation system using Express and React/Redux where users would be able to book their favorite brand(s) – users can view their own personal booked brands by visiting their booking tab and view the cost(s).
- Incorporated a search bar by using Express to find brands that are readily available and display them via React to allow the user to optimize time for if they know what brand to visit.

Accord | *(Python, React/Redux, Flask, SQLAlchemy, CSS3, Websockets)*   **live** | **github**
- Spearheaded this project by creating the skeleton of the frontend and backend to ensure Accord would be completed quickly – User Authorization and Landing Page was completed first so the team could focus on features.
- Implemented websockets (socket.io) without any prior knowledge/instruction – this proved to be a difficult task, but with a combined effort of over 100 hours, the team was able to successfully apply a live chat to the project.
- Took initiative on the user experience/user interface by mainly focusing on the frontend by using React/Redux so users that are familiar with Discord could easily use Accord in the same fashion (e.g servers, channels, & live chat).

liqr | *(JavaScript, React/Redux, Node.js, Express.js Sequelize, PostgreSQL, CSS3)*   **live** | **github**
- Produced a web application clone of Flickr – React/Redux was used for frontend, and Express/Node was used for backend to allow authorized users to post, edit and delete their cocktails as well as their own comments.
- Redesigned every button on the web application to have a "jumping" effect by using global CSS so that the user can feel more immersed into the page by having something that would essentially interact with the user.
- Assimilated a search bar to allow users to easily find their favorite cocktails by using Express/Node as backend and was displayed on the user interface by React/Redux.

EXPERIENCE

Quality Administrator
Valence Surface Technologies   Contract 2021
- Stimulated overall efficiency and turn-around by training a team of line operators on new anodizing techniques (e.g using current instead of voltage on hard coat anodize) on parts for reputable aerospace companies like SpaceX.
- Saved the company thousands of dollars by completing 100+ non-conformance reports to ensure quality is controlled in-house – operators were then supervised routinely to decrease the number of errors.
- Automated Pareto charts that were used by all departments (e.g Paint, Final Inspection, etc.) – this saved the company hundreds of hours by having consistent company error reports as well as percentage of errors made.

Research Assistant
Stanford University   March 2019 - April 2020
- Analyzed and compiled water quality research tests (i.e turbidity, flow rates, tracer tests, etc.) for columns that were oxidized/unoxidized, and had different mediums such as bio-charcoal, sand, and manganese oxide sand.
- Carried out literature review, investigated and troubleshot daily problems such as inadequate flow rate to columns, and sampled a plethora of treated water for daily analysis.

EDUCATION

App Academy - *Full-Stack Software Engineering, Sept. 2022*
California State University, Long Beach - *B.S Chemical Engineering, Aug. 2020*