Richard Huang

(352) 630-5668   rzhuangsg115@gmail.com   Portfolio   GitHub   LinkedIn

Skills: React, Redux, Java, Express, PostgreSQL, JavaScript, Python, HTML, CSS, Flask, SQLAlchemy, Git, Docker, Pug, Sequelize

Projects

MedFlowClinic (Express, Pug, JavaScript, PostgreSQL)   live | github
Platform that allows regular users to submit questions and be answered by professional users.
- Implemented backend validation using Express validators to ensure only authorized users can post answers to questions.
- Demonstrated project planning skill by organizing and structuring the database and routes in Github's project's dashboard.
- Employed the use of AJAX in the upvote and downvote feature to provide a smooth user experience without page refresh.

IT Fairs For Hires (Express, React / Redux, JavaScript, PostgreSQL, React Calendar)   live | github
Event organizing web application where users can interact with job-related event fairs
- Constructed event page components that utilized user authentication state to conditionally render certain React components.
- Leveraged Sequelize to simplify execution of database queries through the use of objects.
- Implemented React Calendar to ensure integrity of date inputs on the frontend.

PBrain (Flask, SQLAlchemy, React / Redux, Python, PostgreSQL, WTForms)   live | github
Brainscape inspired app that allows users to create study and decks.
- Utilized Modals to smooth out user experience by decreasing the number of redirects
- Developed backend routes using Flask which simplified data interactions with PostgreSQL.

Good Eats (Flask, SQLAlchemy, React / Redux, Python, PostgreSQL, WTForms)   live | github
GoodReads clone where users can create recipes and organize them into favorites.
- Constructed custom validators in Flask to validate ingredients and directions so users cannot save malformed data into the database.
- Developed a complex backend route logic to handle data manipulation in two different tables in the database enabling dynamic editing and creation of recipes.
- Designed modular React components to allow reusability on different web pages and improve organization.
- Leveraged Flask-SQLAlchemy ORM to manage database relationships in order to optimize complex table interactions.

Education

App Academy - March 2021
- 1000 hours of immersive full-stack web development with <3% acceptance rate
- Education in Python, SQL, JavaScript, React, Redux, algorithms and best programing practices

BS Biology - University of Texas at Dallas, Texas, Richardson 2016-2020
- Curriculum highlights: Java, Data Structures and Algorithms