DYLAN SILVA

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Skills: Front-End Development, PostgreSQL, Flask, AWS, Python, Javascript, Docker, React, Full-Stack Development, Database Design

PROFESSIONAL EXPERIENCE

Nisum Technologies, Bay Area, CA   Jul 2022 – Nov 2022
Associate Software Engineer

- Developed a demo e-commerce web application consisting of 4 microservices, a **snowflake** hosted database holding over 100,000 entries **Tailwind CSS**, and front-end pagination to maintain a sleek design and intuitive user experience. **Unit testing** on the development branches was completed with **selenium**, the python package beautiful soup was utilized to scrape data on 1000 different products (brand names, prices, categories, product names) from retail applications to populate our database.
- Designed the **Apache Kafka** architecture and **MySQL** relational database schema for a system featuring 4 microservices, 12 tables, and 3 many-to-many relationships to efficiently direct data traffic and maintain an organized dataset.
- Collaborated with domestic and international product managers using **agile methodology** in two week long sprints to delegate story points for 50 features delivering a viable product in an organized and efficient manner that translated to a 20% increase in productivity from the previous sprint.

EDUCATION & SERVICE

App Academy   Aug 2021 - March 2022

- Rigorous 1000-hour software development course with <3% acceptance rate.
- Topics include: Data Structures, Algorithms, REST, Docker, React, React-Redux, Web Frameworks, Security, Authentication, Web Design.

University of Texas at Austin   Aug 2017 - May 2021
B.S. in Economics, Minors in Business & Mathematics

Society of Professional Hispanic Engineers Member (Silicon Valley Chapter)

PROJECTS

Red Riding Hood (**React**, **React-Redux**, **Flask**, **Yahoo Finance API**)   **Github**, **Live Link**

Web application inspired by Robinhood; users can buy stocks and create watchlists for stocks.

- Used **React** hooks to perform user authorization checks and redirect users based on validity of credentials.
- Built a normalized **Redux** store to optimize performance, reduce backend server load, and handle changes in state.
- Engineered a robust backend environment using **Flask**. Created relational tables using **PostgreSQL** and abstracted database queries from **REST API** routes into a service layer to separate concerns and improve code maintainability.

Plantstagram (**React**, **React-Redux**, **Flask, PostgreSQL, Docker**)   **Github**, **Live Link**

Web application inspired by Instagram; users can follow each other, post pictures, like and comment on posts, and change their profile page.

- Implemented a news feed and profile pages with modular, styled React components so that users can enjoy seamless cohesion from the different features.
- Handled image uploading via **Firebase** remote storage to make adding local photos more user-friendly.
- Created many to many database relationships using Flask and PostgreSQL allowing linear query times.