

Preston Prince

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SKILLS React, Typescript, React Native, Kubernetes, Python, PostgreSQL, SQL, Git, REST API

EXPERIENCE

Fullstack Web Developer, Bantr (Typescript, React, React Native, Kubernetes, Postgresql)

Building the tools to create, build, and grow more engaging recreational soccer teams and leagues April 2023 – Current

- Led architecture and system design, as well as full end-to-end implementation of a real-time group messaging feature that serves thousands of users monthly.
- Utilized Redis and Socket.io to establish seamless communication, ensuring a responsive and scalable solution.
- Incorporated AI tools to enhance development processes, boosting efficiency, and reducing time-to-market.
- Designed and developed a complex full-stack feature, considering existing processes to ensure seamless integration and backwards compatibility.
- Played a key role in refactoring the backend test suite, significantly improving test coverage and overall code quality.
- Consistently laid out the architecture of solutions, ensuring a structured and well thought out approach to development.
- Emphasized the importance of maintainability, resulting in more efficient collaboration among the development team.
- Orchestrated deployment and scaling of applications using Kubernetes, ensuring optimal resource utilization and high availability.
- Integrated Google Cloud Platform tools and services seamlessly into the development pipeline for continuous integration and deployment.

PROJECTS

Rocket Pilled (React, Redux, Flask, Python, Flask, SQLAlchemy, HTML5, CSS3)

[Github](#)

A match-making web application for Rocket League players, built with React, Redux, Flask, Python, HTML5, CSS3.

- Designed the entire web application with **custom CSS** in order to provide a fluid and snappy **user interface**.
- Utilized the unidirectional state management system of **Redux** to provide a single source of truth for **React Components**, allowing for predictable flow of information.
- Combined **React Context** with **session storage** in order to **persist and maintain user data** between reloads.
- Constructed **helper functions** that leveraged principles of **DRY programming**, optimizing overall **speed of production**.
- Applied a data preprocessing procedure called **data normalization** to incoming data from the **backend API** in order to form a more **cohesive data set** for the frontend, resulting in a **reduced time complexity of O(1)** when reading this data.

Hangers Academy (Python, JavaScript, React, Redux, CSS3, Flask, SQLAlchemy, HTML5)

[Github](#)

A chat-based web application inspired by Discord, built with React, Redux, Python, Flask, HTML5, and CSS3.

- Implemented a **self-referential many-to-many** relationship with the **User database table**, allowing users to create friends.
- Interpreted **SQLAlchemy** documentation to maximize **efficient interaction** efficiency with the database.
- **Structured** frontend **app architecture** using the **React component** system, providing a clear roadmap for team
- Constructed **API documentation** using **RESTful endpoints** in order to form a more **organized and uniform API**, and **providing a blueprint** for the team to follow.
- Utilized **SocketIO** to implement **web sockets**, enabling real-time chat communication between users, providing a smooth, seamless chat experience to the users.
- Developed a system for organizing and displaying private and public servers using **React Redux state management** in conjunction with **Flask-SQLAlchemy model declaration**.

EDUCATION

App Academy, Online

Curriculum of Study in Web Development (Javascript and Python)

August 2022 - January 2023

- Robust 1000-hour full stack software engineering course with <5% acceptance rate.
- Course included: Javascript, Data Structures and Algorithms (DS&A), Object Oriented Programming (OOP), Test Driven Development (TDD), Computational Complexity, Express, React, Redux, Python, Flask, and system architecture.