

Simon Tan

SOFTWARE ENGINEER

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SUMMARY

Highly motivated software engineer with experience developing full-stack web applications using JavaScript, Python, HTML, CSS, and SQL. Proficient in React, Redux, Express, Flask, Sequelize, SQLAlchemy, and PostgreSQL. Skilled in Agile and Scrum methodologies. Seeking a software development role in a fast-paced, collaborative environment.

TECHNICAL SKILLS

- Proficiency: Javascript, TypeScript, Python, React, Redux, Express, Flask, Sequelize, SQLAlchemy, PostgreSQL, HTML, CSS, SQL
- Exposure: Storybook, Jest, GraphQL, Docker, AWS

PROJECTS

Homielist (Python, ReactJS, SQLAlchemy, Flask, render.com)

[Live site](#) | [Repo](#)

- Designed a Python Backend server with **RESTful API** architecture using **Flask** and **SQLAlchemy** for the database, offering more than 10 **CRUD**-enabled endpoints while maintaining a clean **MVC structure**.
- Exhibited **time-management** skills by completing four complete CRUD features within a three-week period meeting project deadlines.
- Developed a responsive front-end using **React**, **HTML**, **JavaScript** and **CSS**, providing a user-friendly interface and seamless user experience for a daily active user.
- Leveraged a combination of **Waterfall** and **Agile** Methodologies to lead the successful deployment of post ,like , and comment features resulting in a **25%** decrease in bug reports.

Ingenious (Python, ReactJS, SQLAlchemy, Flask , render.com)

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- Collaborated with a team of 3 engineers using **GitHub's** version control system, implementing a modular approach to separate features and improve workflow, resulting in increased productivity output by **65%**.
- Gained industry-level proficiency in **Scrum** methodology while honing my skills in a collaborative group setting.
- Pioneered a scalable and modular codebase that can easily accommodate future feature additions and updates, resulting in a 50% reduction in development time for feature additions and updates.
- Integrated a voting feature for both front-end and back-end, enabling users to enhance their understanding and enjoyment of their favorite songs.

i_BnB (JavaScript, Express, ReactJS , PostgreSQL, Heroku)

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- Enhanced the user experience by offering clear and concise instructions on form validation as well Implemented a user authentication system with secure password **hashing** .
- Utilized **Redux** to optimize the management of information in React components, resulting in readable, DRY code and improved scalability of the single-page application.
- Designed and developed an **Express.js** server based back-end system that supported RESTful API on CRUD Endpoints , resulting in a more than **35%** improvement in system efficiency.
- Arranged and deployed the website on the hosting platform **Heroku**, using **PostgreSQL** on site as the database.
- Conducted thorough testing and **debugging** to ensure a high level of quality and reliability, resulting in a 99.9% uptime rate and a 95% reduction in reported bugs.

EXPERIENCE

Accountant

San Mateo County Transit District, SAMTRANS , San Mateo

May 2017 - Sep 2021

- Tasked with processing 80 check applications daily, with the objective of achieving a 10% annual increase in quota.
- Worked closely with cross-functional teams to implement a new ERP system, leading to a 20% increase in efficiency and a 50% reduction in errors.
- Corresponded with sales and marketing teams to analyze pricing strategies, resulting in a 10% increase in revenue and a 5% increase in profit margins.
- Successfully managed the annual budget process for a department with a \$1 million budget, ensuring that all deadlines were met and that accurate and thorough reports were submitted on time.

EDUCATION

Full Stack Web Development - App Academy | June-Dec 2022

Data Analyst - Google Data Analyst Certificate 2021-2022

BA Education - University of California , Riverside | Business Economics | Honors: Dean List