

Brandon Lai

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Experience

Software Engineering Intern

June 2020 - September 2020

Smoodi | Boston, MA

- Wrote and incorporated unit tests to automatically run to prevent regressions when adding new features to backend and frontend, saving **10 hours** of manual QA time per week
- Designed a new efficient user interface using Figma to match the new hardware of the self-cleaning smoothie machine, reducing necessary user interaction **by 50%**
- Developed a new snappy web application based on UI design using the Svelte framework, HTML, CSS, and JavaScript, decreasing latency **by over 96%**
- Wrote **3** automation scripts to enable auto-starting of user interface application on download to a machine and on machine reboot to reduce maintenance operator onboarding time **by 3 hours**

Product Management Intern

June 2019 - August 2019

Smoodi | Boston, MA

- **Ideated** various concepts of a touchscreen user interface (UI) and experience while conducting **user research** during pilots and special showing events by gathering feedback from **30** users per event
- **Designed** and **developed** a prototype user interface and user experience using Adobe XD, HTML, CSS, JavaScript, and Apache Cordova to create intuitive and aesthetic UI for the self-cleaning smoothie machine
- Collaborated with **3** cross-functional teams to develop a **marketing** plan for the new UI
- **Launched** the new UI feature at a pilot with a local convenience store improving average user ratings **by 80%**

Education

Vanderbilt University, Nashville, TN

August 2018 - May 2022

Bachelor of Science in Computer Science, Bachelor of Arts in Economics

Relevant Coursework: Algorithms, Software Design Patterns, Data Structures, Digital Logic, Computer Organization, Discrete Mathematics, Linear Algebra, Multivariable Calculus

Skills

Languages

C++, JavaScript, Python, Java, SQL, HTML, CSS

Tools

Git, React, React Native, Node.js, Flask, Django, Svelte, Figma, Adobe XD, Agile (Scrum)

Leadership and Extracurriculars

Vanderbilt Rowing (Varsity Men's)

August 2018 - Present

Secretary | 2019

- Commit to 20 hours of organized practice a week as well as additional self-motivated workouts outside of practice
- Communicated with 7 customer service representatives to order team uniforms and required gear
- Collaborated with 5 other board members and 4 coaches to ensure smooth daily operations of the 30 athlete team

Projects

Spotify Party

Python, Django, JavaScript, React

- Collaborative music playing app that uses the Spotify API to allow friends to listen to music together remotely

Anyone Can Cook!

Python, Flask, JavaScript, React

- A website that uses the Spoonacular API to give a list of recipes based on the ingredients the user already has

Cameo Search

React, Express, JavaScript

- Full-stack app to search and view Cameo talent extracted from a mock API and database with sorting and filtering

RecipeBox

React Native, JavaScript

- React Native app for users to store and review recipes they have made for their reference

Auto-Expiring Dictionary

Python

- A data structure that automatically removes all data associated with expired keys to reduce memory usage