

Brandon Lai

brandon.lai@vanderbilt.edu | 952-905-8881 | linkedin.com/in/laibrandon | github.com/brandon-lai

Work 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, which saved 10 hours per week of manual QA time
- Designed new user interface and user experience using Figma to match new hardware of self-cleaning smoothie machine, to be used on over 100 machines in the field by 2021
- Developed web application based on UX design to be implemented on over 100 machines by 2021 using the Svelte framework, HTML, CSS, and JavaScript
- Wrote automation scripts to enable auto-starting of user interface application on download to machine and on machine reboot, creating a seamless operator experience
- Integrated frontend, backend server, and hardware server to ensure smooth machine operation

Product Management Intern

June 2019 - August 2019

Smoodi | Boston, MA

- **Ideated** the initial concept of the user interface and user experience for the Smoodi branded self-cleaning smoothie machine
- Conducted **user research** during pilots and special showing events by gathering feedback from 30 users per event
- **Designed** a prototype user interface and user experience to create intuitive and aesthetic user interaction with the self-cleaning smoothie machine
- Used HTML, CSS, JavaScript, and Apache Cordova to **develop** a touchscreen compatible Android application based on the user interface design
- Worked with cross-functional teams such as Business Development, Marketing, and Hardware Engineering to develop a **marketing** plan for the new user interface
- **Launched** the new user interface at a pilot with a local convenience store and continued to gather user research

Education

Vanderbilt University, Nashville, TN

August 2018 - May 2022

Computer Science and Economics Double Major at Vanderbilt University in the Class of 2022

Relevant coursework:

- | | | |
|-------------------------------|--------------------------|------------------------------|
| • Design Patterns (C++) | • Computer Organization | • Differential Equations |
| • Data Structures (C++) | • Discrete Mathematics | • Fundamentals of Management |
| • Intro to Programming (Java) | • Linear Algebra | • Econometric Methods |
| • Digital Logic | • Multivariable Calculus | • Mathematical Modeling |

Applicable Skills

Languages

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

Tools

Git, React, React Native, Node.js, Flask, Django, Svelte, Figma, Adobe XD, 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 workouts outside of practice
- Worked with Vanderbilt Licensing Department to design approved logos for Vanderbilt Rowing
- Organized the gear sales at regattas and team events to clear out leftover inventory
- Communicated with multiple customer service representatives to order team uniforms and required gear
- Collaborated with other board members and coaches to ensure smooth daily operations of the team