

# Austin Liu

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## EDUCATION

### Brown University

Providence, RI

*B.S. in Applied Math and Computer Science, B.A. in Economics*

*Expected May 2027*

- Relevant Coursework: Operating Systems, Computer Systems, Deep Learning, Foundations of AI, Data Structures and Algorithms, Design/Analysis of Algorithms, Statistical Inference I/II

## EXPERIENCE

### Symbotic

May 2025 - August 2025

*Software Engineer Intern*

*Wilmington, MA*

- Incoming Summer 2025 Data Services team

### Helios Technologies

Feb. 2025 – Current

*Software Engineer Intern*

*Remote*

- Conduct QA for weekly production deployments by identifying bugs, and testing across multiple devices
- Manage **AWS cloud services**, including AWS Lambda, AWS AppSync (GraphQL server), and AWS DynamoDB

### SAI (Study AI)

November 2024 – January 2025

*Software Engineer Intern*

*Remote*

- Integrated AI with learning management systems across **20+ universities**, enhancing studying engagement
- Optimized **RAG pipelines** using **React Flow**, enabling dynamic **diagram generation** for complex workflows
- Deployed multilingual translation for **20+ languages** using **i18next** library, improving global user accessibility

### Stealth Startup

June 2024 – September 2024

*Software Engineer Intern*

*Remote*

- Engineered backend architecture for a **web app** using **Firebase NoSQL** and **NodeJS**, enhancing scalability
- Successfully conducted a **pilot run** with **30+ users**, improving user experience based on initial feedback
- Implemented **APIs** such as **Edamam API** for nutritional data and **ChatGPT API** for user personalization

### MyDataProduct

February 2024 – May 2024

*Software Engineer Intern*

*Remote*

- Researched/implemented **5+ APIs** (e.g. Google NLP, Picsart Background Removal, Google Image Search)
- Aided weekly **DEV-to-PROD** deployments by ensuring all code was **tested** and ready for **production**
- Reduced manual workload by **30%** through **automated operations** (i.e. automatic SSH certificate renewal)

## PROJECTS

### Beya, Founding Software Engineer | *React Native, Expo Go, Firebase, AWS*

November 2024 - Present

- Generated **\$5,000+** in revenue through SaaS mobile **tap-to-pay** between popup vendors on college campuses
- Built internal analytics tool, tracking **1,000+ user events**, enabling insights to optimize **proprietary AI model**
- Currently in **beta**, developing app to officially be launched to app store for both **iOS** and **Android** devices

### WordHunt Online | *React, NodeJS, Firebase, Bootstrap*

October 2024 - November 2024

- Built CPU player with a custom heuristic and **300,000+ word trie dictionary** for optimized recursive search
- Implemented real-time, **player-vs-player functionality** using **Websockets** for enhanced multiplayer experience

### Find My Food | *React, AWS, Flask, MySQL*

January 2024 - May 2024

- Developed **dining hall menu tracking project** with **200+ monthly visits**, improving dining experience
- Decreased **AWS** expenses by **87.5%** through automation of **RDS instances**, and temporary **NAT gateways**

## LEADERSHIP

### Backend Software Engineer

September 2024 – Present

*Brown Formula Racing*

*Providence, RI*

- Leading team of **10 engineers**, facilitating design discussions, delegating tasks, and **mentoring underclassmen**
- Processed and cleaned **30,000+ data points** from racecar telemetry to create **graphs** for performance analysis
- Manage weekly PROD deployments and cloud infrastructure (i.e. Firebase Firestore, Storage, Realtime Database)

## SKILLS AND INTERESTS

**Languages:** C++, Java, Python, JavaScript/TypeScript, C

**Tools:** GitHub, Firebase, Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure

**Frameworks/Libraries:** React, React-Native, Expo, NextJS, Flask, Django NodeJS, Socket.IO