

# Austin Liu

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## EDUCATION

### Brown University

Providence, RI

*Bachelor of Science in Computer Science and Economics with Entrepreneurship Certificate*

*Expected May 2027*

- Relevant Coursework: Computer Systems, Data Structures and Algorithms, Design/Analysis of Algorithms, Foundations of AI, Intermediate Macroeconomics, Intermediate Microeconomics

## EXPERIENCE

### Software Engineer Intern

June 2024 – Current

*Stealth Startup*

*Remote*

- Designed and implemented backend architecture for an **MVP** utilizing **Firebase** for a **NoSQL database** to securely store user data, and **Node.js** to efficiently manage high-volume request handling
- Integrated backend with **third-party APIs** including the **Edamam API** to deliver comprehensive nutritional data and the **ChatGPT API** for advanced smoothie personalization

### Data Product Engineering Intern

February 2024 – May 2024

*MyDataProduct*

*Remote*

- **Performed research/analysis** on **5+** industry-standard **APIs** before integrating them into codebase
- Aided weekly **DEV-to-PROD** deployments by ensuring all code was thoroughly **tested** and ready for **release**
- Automated **development operations** and designed **configuration files**, reducing manual workload by **30%**
- Participated in **daily stand up meetings** and conducted **Quality Assurance (QA) reviews** on merge requests to enforce team practices and adherence to industry standards

## PROJECTS

### Guitar Tab Transformer | *React, Bootstrap, Tensorflow, Keras*

June 2024 - September 2024

- Used preprocessing techniques (**e.g. one-hot encoding, morphology operations, binarization**) on DoReMi OMR (Optical Music Recognition) dataset to prepare data/labels for **supervised learning**.
- Developed **Convolutional Neural Network (CNN)** to perform **binary** and **multiclass classification**.

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

January 2024 - May 2024

- Developed real-time **dining hall menu tracking project** with **100+ of monthly visits**
- Designed **AWS Lambda** functions to automate the life cycle of **RDS instances**, and to set up temporary **NAT gateways**, significantly decreasing operational expenses by **87.5%**

## LEADERSHIP

### Lead Software Engineer

September 2024 – Present

*Brown Formula Racing*

*Providence, RI*

- **Led 10 engineers** to develop a test-driving app, resulting in improved data collection and analysis of performance
- **Implemented Kanban board** to simulate a **scrum environment** (e.g., issues, pull requests, QA reviews)
- **Ran weekly meetings** and facilitated design discussions, ensuring the seamless integration of the app with **mechanical and electrical subsystems**

### VP of Technology

September 2023 – Present

*Brown Technology Consulting Group*

*Providence, RI*

- Oversee the **club's website** (using **React**) and provided **expert guidance** on all software-related inquiries
- **Conducted 10+ interviews** to evaluate prospective candidates, ensuring a **high standard** of talent acquisition.

### Family Head

September 2024 – Present

*Chinese Student Association*

*Providence, RI*

- **Mentored 8 underclassmen** on both academic/social aspects of college life (e.g. coursework, extracurriculars)
- **Organized social events** such as **dumpling folding, tanghulu nights** and **boba runs**

## SKILLS AND INTERESTS

**Skills:** C++, Java, Python, JavaScript, TypeScript HTML, CSS, React, Flask, Django, NodeJS, Tensorflow, Keras

**Tools:** GitHub, GitLab, Ubuntu, Firebase, AWS, GCP

**Interests:** Men's Volleyball, Fingerstyle Guitar, Chess