

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: Statistical Inference I, Computer Science Integrated Introduction, Principles of Economics, Management of Industrial and Nonprofit Organizations

EXPERIENCE

Back End Developer

June 2024 – Present

Stealth Startup

Remote

- Designed backend architecture for the **MVP**, prioritizing low cost options (i.e. Google Firebase, Flask, Hostinger)
- Created **database instance** to secure user data storage, and built **Flask server** to manage **API routes**

Data Product Engineering Intern

February 2024 – May 2024

MyDataProduct

Remote

- Enhanced product development by **conducting SPIKES** on industry-standard APIs, implementing solutions Google's NLP API while cleanly **designing configuration YAML** files with consideration for the **downstream** impact
- **Automated development operations**, such as the scripting of GCP SSL certificate renewal
- Participated in **daily stand up meetings** and conducted Quality Assurance (QA) reviews on merge requests to enforce team practices and adherence to industry standards

Research Assistant

September 2021 – May 2023

Connected Autonomous Vehicular System Research Lab at University of North Texas

Denton, TX

- Created Phantom Traffic Jam Project using **(ROS) and C++** to reduce congestion on roads
- **Mastered reactive methods** (i.e. PID controller, Wall Following, Follow the Gap) through F1tenth, creating a **complete Cooperative Car Following Model**
- **Honorable Mention** at 2nd Design Competition on Networked Computing on the Edge (International Postgraduate Student Competition)

PROJECTS

Find My Food | *ReactJS, AWS, Flask, MySQL*

January 2024 - May 2024

- Developed **Python** web scraper on **AWS Lambda** with **CI/CD pipelines (Jest and Pytest)** for real-time dining hall menu tracking
- Optimized cloud resource management by integrating **AWS Lambda** functions to automate the life cycle of **RDS instances**, and setting up temporary **NAT gateways**, significantly decreasing operational expenses by **87.5%**, reducing monthly costs from \$56 to \$7

Connect4 AI Player | *ReactJS, Flask*

November 2023 - December 2023

- Developed a Connect4 AI player, utilizing **Flask** to host the algorithm, and **Google Firebase** for tracking Wins, Losses, and Draws of AI model
- Devised a robust **minimax algorithm** with **heuristic evaluations** to calculate **optimal** moves

LEADERSHIP

VP of Technology

September 2023 – Present

Brown Technology Consulting Group

Providence, RI

- Oversaw the **club's website** (using **React**) and provide **expert guidance** on all software-related inquiries
- Revamped **revenue model** for social media influencer marketplace startup by performing **competitor analysis**, assessing current **value proposition**, and formulating detailed recommendation

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript, TypeScript HTML, CSS

Frameworks: ReactJs, ROS (Robot Operating System), Flask

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