

Emily C. Liew

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Education

Georgia Institute of Technology | Atlanta, GA

August 2022 – May 2025

Bachelor of Science in Computer Science, Threads: Information Internetworks and Intelligence, **GPA: 3.94**

Coursework: Intro to AI, Computer Networking I, Design and Analysis-Algorithms, Intro to Info Security

Skills

Programming Languages: Java, TypeScript, JavaScript, ObjectScript, Python, C, Assembly, SQL

Technologies: Next.js, React, HTML, CSS, REST API, AWS, Firebase, Django, PostgreSQL, GitHub, JUnit, Angular

Languages: English (native), Cantonese (conversational), Mandarin (Seal of Bilingualism - fluent)

Experience

InterSystems

May 2024 – August 2024

Software Engineer Intern (Documentation Team)

Boston, Massachusetts

- Trained SVM **machine learning** model in **Python** to classify and tag blocks of documentation text into composable sets with 99% training accuracy and 98% testing accuracy, saving over 130 hours of work.
- Built CLI application in **ObjectScript** to the documentation team to easily train new models for future products.

Intro to Object-Oriented Programming in Java | Georgia Institute of Technology

January 2023 – May 2024

Teaching Assistant

Atlanta, Georgia

- Worked 10+ hours a week teaching recitation, grading assignments, and hosting office hours.
- Used **JUnit Testing Framework** to write test cases to automatically grade students' work.

Projects

GreenPlate | Android Studio, Java, Firebase

January 2024 – May 2024

More about this project: lnkd.in/gfBZXEXx

- Developed an **Android** application in **Java** following design principles, such as Singleton classes and Observer model, that allows users to track their meals, pantry, and calories for a healthier lifestyle.
- Utilized **Firebase** to authenticate users and as a non-SQL database for recipes, ingredients, and meals.

OnTheLingo (Start-Up) | React Native, Firebase

January 2024 – May 2024

- Designed and developed a mobile app using **React Native** for the frontend and **Firebase** for the backend that provides personalized language learning curricula to users.

Bounce (Personal Project) | Next.js, React.js, TypeScript, AWS, HTML, CSS, REST API, Node.js

June 2023 – August 2023

- Built a full-stack web app using **React**, **TypeScript**, and **AWS**, enabling users to track recipes, groceries, and tasks.
- Connected the front-end to a back-end database for persistent data storage using **Node.js**, **REST API**, and **AWS**.
- Implemented dynamic task categorization and prioritization based on deadlines and task duration.
- Implemented dynamic sorting of recipes that is updated based on the available ingredients in a user's inventory.

BetaBase, Create-X Female Founders Start-up

October 2022 – May 2023

- Conducted customer discovery for start-up that aims to improve beta testing/product validation for other start-ups.

Organizations

Chinese Student Association, Co-President | Georgia Institute of Technology

August 2022 – Present

- Planned monthly event and presented at the monthly general body meeting.
- Managed/led subcommittees and planned a major event for 500+ students each semester, communicating with several vendors and organizations to accomplish this.

Society of Women Engineers | Georgia Institute of Technology

August 2022 – Present

- Attended professional development workshops to build communication skills.

The Agency | Georgia Institute of Technology

August 2022 – December 2022

- Attended weekly development workshops teaching the basics of machine learning using **Python**.
- Learned about and created neural networks and computer vision models using **Python** in Jupyter Notebook.

Publications

Robustness Testing of AI-Driven Hand Biometric-Based User Authentication in Mobile Devices

(1) <https://ieeexplore.ieee.org/document/9701620>

- Concluded hand biometric-based phone authentication is too unreliable with current technology and our AI models.
- Published in **IEEE Xplore** and presented at **2021 MIT Undergraduate Research Technology Conference (URTC)**.