

# Jason Mai

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## EDUCATION

### • University at Buffalo (SUNY)

August 2020 — Expected: May 2024

*Bachelor of Science; Computer Science*

*Courses: Systems Programming, Web Applications, Algorithms and Complexities, Artificial Intelligence, Probability and Statistics, Data Structures, Data Intensive Computing, Computer Architecture, Distributed Systems*

## SKILLS SUMMARY

- **Languages:** C, Java, HTML & CSS, Python, SQL, JavaScript, Swift, Scala, PHP, Golang
- **Technologies and Tools:** Docker, GIT, Jupyter, GitHub, Pandas, XCode, NodeJS, Figma
- **Databases:** MongoDB, Parse, Firebase, MySQL, PostgreSQL

## EXPERIENCE

### • Product Manager — Develop For Good *San Francisco, CA*

October 2023 - Present

- Led a team of engineers to create a project under Develop For Good to construct a dedicated cloud for Develop For Good on GCP. This cloud is implemented as a Kubernetes cluster for extensibility and scalability purposes.
- Championed a user-centric design approach, conducting extensive user research and A/B testing to enhance product usability and accessibility.

### • Fellowship Director — Product Space *Buffalo, New York*

January 2023 - Present

- Led and assisted an engineering team in developing Product Space's front-end react website for the University at Buffalo.
- Recruited engineering students interested in product management for Product Space's chapter at the University at Buffalo.
- Co-hosted Product Space's first event at the University at Buffalo for being one of the first East Coast chapters.

### • Software Engineering Intern — Stony Brook Administrative Services *New York, NY* May 2023 - August 2023

- Worked extensively with databases to streamline and optimize the flow of data, enabling more efficient and effective data processing and retrieval, which enhanced the productivity and decision-making processes at Stony Brook Medicine.
- Constructed a web application leveraging Python and Flask that serves as an invoice automation system for Stony Brook Medicine. The application allows users to automate multiple invoices with the option to edit or manually create an invoice, providing a seamless user experience with quick and efficient creation of files.

## CODING PROJECTS

### • UniMarket

#### ◦ iOS Mobile Application [UB Hackathon Fall 2021] — Swift

- \* Developed a user-friendly college marketplace iOS mobile app using Swift and the Parse API as an individual project. The app enables students to securely buy and sell items within their campus community, fostering a sense of trust, convenience, and community engagement.

#### ◦ Web Application — JavaScript, CSS, HTML

- \* Led a team in the development of an e-commerce web application that complements the mobile app experience. Played a crucial role in developing the front-end using ReactJS, HTML, and CSS, as well as the back-end using advanced technologies such as Express.js, Axios, and Mongoose. Delivered a highly seamless and engaging user interface for online transactions, resulting in a top-notch user experience.

### • Messenger — Swift, Objective-C

- Developed an instant messaging iOS mobile application using Swift and Objective-C programming languages, implementing industry-standard encryption protocols to ensure the security and privacy of user data.
- Utilized Firebase and Realm to incorporate real-time messaging, file sharing, and push notifications into the application, significantly improving the user experience and increasing user engagement.

### • Checkers AI — Python

- Developed a Checkers AI using Python that efficiently determines the most optimal move for the player by utilizing the minimax algorithm, data structures such as trees and graphs, and heuristic evaluation functions.
- Conducted rigorous testing to validate the AI's effectiveness and accuracy in predicting the best moves, resulting in a high reward and increased chances of winning the game.

### • Genetic Algorithm — Scala

- Implemented a genetic algorithm in Scala to solve optimization problems efficiently by utilizing genetic operators such as crossover and mutation to evolve solutions over generations.
- Achieved high accuracy in finding optimal solutions through testing, and validating the algorithm's effectiveness and efficiency, which further developed skills in algorithm design, optimization, and data analysis.

## AWARDS AND CERTIFICATES

### • University at Buffalo (SUNY): Dean's List Spring 2022

### • CodePath: [Certificate of Achievement iOS Development](#), [Certificate of Achievement Advanced Software Engineer](#)