

Jason Mai

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EDUCATION

- **University at Buffalo (SUNY)** *Bachelor of Science in Computer Science* *August 2020 - May 2024*
Relevant Courses: Object Oriented Programming, Web Applications, Algorithms, Artificial Intelligence, Data Structures, Data Intensive Computing, Computer Organization, Systems Programming, Distributed Systems, Blockchain, Mobile Development

SKILLS SUMMARY

- **Languages:** HTML & CSS, Golang, C, Java, Python, Kotlin, SQL, JavaScript, Swift, Scala, PHP, Solidity
- **Tools & Technologies:** Jupyter, Pandas, XCode, Figma, Docker, Git, Node.js, ReactJS, Express.js, Hadoop, SwiftUI
- **Databases:** MongoDB, 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 improve product usability and accessibility.
- **Fellowship Director — Product Space** *Buffalo, New York* *January 2023 - Present*
 - Recruited and integrated over 200 engineering students into Product Space's University at Buffalo chapter, fostering a strong community of future tech innovators.
 - Collaborated closely with various client companies to deliver highly demanded products, ensuring alignment with client objectives and timely execution.
- **Software Engineering Intern — Stony Brook Administrative Services** *New York, NY* *May 2023 - August 2023*
 - Analyzed extensively with databases to streamline and optimize the flow of data, enabling more efficient and effective data processing and retrieval, which increased 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.

PROJECTS

- **Crypto Ticket Marketplace** — *Ethers, Web3JS, JavaScript, Hardhat*
 - Engineered a decentralized Web3 Ticket Marketplace leveraging Hardhat and EthersJS, revolutionizing event ticketing by enabling secure, blockchain-based transactions with Ethereum.
 - Constructed an intuitive, JavaScript-powered user interface for real-time seat selection and wallet integration, enhancing the user experience in the emerging Web3 domain.
- **GitHub History Viewer** — *ReactJS, Express.js, Node.js, D3.js*
 - Designed and created a visual git history viewer that allows users to visually explore a repository's commit history.
 - Integrated the application with GitHub API to fetch commit data and visualize it using D3.js.
- **Messenger** — *Swift, Objective-C*
 - Developed an instant messaging iOS mobile application using Swift and Objective-C programming languages, executing industry-standard encryption protocols to ensure the security and privacy of user data.
 - Applied Firebase and Realm to incorporate real-time messaging, file sharing, and push notifications into the application, improving user experience and increasing user engagement.
- **Checkers AI** — *Python, Jupyter*
 - Built 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.
- **Vizier** — *Scala, Python, SQL*
 - Innovated a kernel-free architecture, guaranteeing enhanced user experience by ensuring reproducibility through automatic cell re-execution when inputs change, combined with strategic data snapshots for individual cell re-runs. Seamlessly consolidated polyglot capabilities supporting Python, SQL, and Scala.
 - Optimized data visualization through rigorous testing of plot features, ensuring scalability and leveraging powerful technologies such as Spark and Apache Arrow.

AWARDS AND CERTIFICATES

- **University at Buffalo (SUNY):** Dean's List Spring 2022
- **CodePath:** [Certificate of Achievement iOS Development](#), [Certificate of Achievement Advanced Software Engineer](#)