

Jiahao Guo

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EDUCATION

Carnegie Mellon University

M.S. in Electrical and Computer Engineering (GPA: 3.89/4.0)

Jan. 2024 - Dec. 2025

Pittsburgh, PA

University of California, Irvine

B.S. in Computer Science; B.A. in Economics (GPA: 3.864/4.0)

Sep. 2019 - Jun. 2023

Irvine, CA

SKILLS

Languages: Python, Java, C/C++, TypeScript, JavaScript, SQL, HTML/CSS, Go, Shell

Frameworks: React, Django, Flask, Node.js, Spring Boot, PyTorch, Tensorflow, Ant Design, Keras, Pandas

Development Tools: Git, Docker, AWS, Azure, CMake, Postman, CI/CD, Jenkins, Nginx, Google Cloud Platform

EXPERIENCE

Software Engineer Intern

May 2024 - Aug. 2024

Meituan

Shanghai, CN

- Developed four advanced web applications for Meituan's Machine Learning sector using **ReactJS**, **TypeScript**, **Ant Design UI**, and **K2 framework**, achieving a 23% reduction in load times
- Enhanced backend efficiency by 25% through the integration of **FastAPI**, streamlining server-side data handling
- Adopted **PostgreSQL** for robust data management, improving query handling efficiency by 10%
- Implemented CI/CD with **Meituan Pipeline**, cutting deployment errors by 23% and improving integration by 8%
- Built over 30 web pages for machine learning model deployment, enhancing data visualization and management, which increased decision-making capabilities by 37%
- Optimized performance and UI, boosting operational efficiency by 25% and user satisfaction by 50%

Software Engineer Intern

Aug. 2023 - Jan. 2024

Douller LLC

Tampa, FL

- Led development of Douller second-hand app, increasing user activity by 20% through strategic improvements
- Implemented new features using **Dart** and redesigned data tables to improve app functionality and data handling
- Introduced **MongoDB**, leveraging its flexibility with unstructured data to boost retrieval speeds by 15%
- Utilized **Redis** for caching frequently accessed data, cutting load times by 17% and boosting app responsiveness
- Developed and maintained the management backend system with **Node.js**, streamlining create, read, update, and delete operations, which increased operational efficiency by 18%
- Managed the release of four app updates, contributing to a 37% reduction in app downtime and ensuring its continued success in the competitive market

Software Engineer Intern

Jul. 2022 - Aug. 2022

EdgeDevice.AI LLC

Redwood City, CA

- Developed a full-stack Python stock valuation program for S&P 500 companies using **React** and **Django**, optimizing portfolios with **ARIMA** and **ARCH** models
- Retrieved and analyzed 20 years of financial data from **Yahoo API**, enhancing query efficiency by 18% with **MySQL**
- Leveraged **AWS EC2** and **RDS** to reduce infrastructure overhead by 40% and ensure scalability
- Improved responsiveness by 25% through Django optimizations and React state management, boosting user experience
- Enabled easy access to valuations, increasing user engagement by 20% and enhancing customer satisfaction

PROJECT

Interactive Kids Game Website

Apr. 2023 - Jun. 2023

- Developed a Python **Flask** backend on **Google Cloud Platform**, separating development from production environments to increase system reliability and feature roll-out speed by 27%
- Constructed **React** frontend that enhanced user engagement by 20% and reduced load times by 13%
- Implemented **MongoDB** with **TTL** index for session data and API rate limiting, stabilizing system load and reducing peak traffic overload risk by 24%
- Integrated short-lived **JWTs** for secure API communications, cutting down unauthorized access risks by 26%
- Automated CI/CD processes with **GitHub Actions**, boosting efficiency and cutting deployment errors by 30%