Jiahao Guo

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EDUCATION

Carnegie Mellon University	Pittsburgh, PA
Master of Science in Electrical and Computer Engineering (GPA: 3.9/4.0)	*Dec. 2025*
University of California, Irvine	Irvine, CA
Bachelor of Science in Computer Science; Bachelor of Arts in Economics (GPA: 3.9/4.0)	*Jun. 2023*

SKILLS

Languages: Python, Java, C/C++, TypeScript, JavaScript, SQL, HTML/CSS, Go, Shell
Frameworks: React, Node.js, Django, Flask, Node.js, JUnit, Spring Boot, Ant Design, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, AWS, Azure, CMake, CI/CD, Jenkins, Nginx
Knowledge: Web App, Frontend Dev, Backend Dev, Machine Learning, LLM, NLP

EXPERIENCE

Software Engineer Intern — May 2024 – Aug. 2024
Meituan — *Shanghai, CN*

- Developed and refactored four advanced web applications for Meituan's Machine Learning sector using **ReactJS**, **TypeScript**, **Ant Design UI**, and the **K2 framework**, boosting operational efficiency by 12%
- Integrated **FastAPI** to streamline server-side data handling, amplifying backend efficiency by 14% and accelerating **PostgreSQL** query performance by 8%
- Implemented CI/CD with **Meituan Pipeline**, cutting deployment errors by 14% and slashing code integration times by 22%
- Built 30+ web pages for machine learning model deployment, advancing feature management, visualization, and improving decision-making capabilities by 24%

Software Engineer Intern — Aug. 2023 – Jan. 2024
Douller LLC — *Tampa, FL*

- Spearheaded a team of four to overhaul the Douller app, driving a 20% increase in user activity through feature implementation using **Dart** and backend system maintenance with **Node.js**
- Introduced **MongoDB** to optimize data retrieval speeds and implemented **Redis** for caching, cutting load times by 25% and enhancing app responsiveness
- Redesigned data tables and streamlined CRUD operations, elevating functionality, data handling, and increasing operational efficiency by 18%
- Managed four app updates, incorporating **Elasticsearch** for search capabilities, improving search efficiency by 33%, and minimizing app downtime by 20%

Software Engineer Intern — Jul. 2022 – Aug. 2022
EdgeDevice.AI LLC — *Redwood City, CA*

- Constructed a full-stack stock valuation program for S&P 500 companies using **React** and **Django**, integrating **ARIMA** and **ARCH** models to optimize customer portfolios
- Retrieved and analyzed 20 years of financial data via the **Yahoo API**, leveraging **MySQL** to boost query efficiency and identify top-performing stocks, enhancing customer satisfaction
- Harnessed **AWS EC2** and **RDS** for hosting, reducing infrastructure overhead by 20% while ensuring scalability, and amplified program responsiveness through backend and state management optimizations
- Enabled real-time access to stock valuations by symbol or category, driving a 25% increase in user engagement

PROJECTS

Interactive Kids Game Website | *Python, Flask, React, MongoDB, GCP* — Apr. 2023 - Jun. 2023

- Led a team of five to develop a Kids' Game Website focused on marine mammal conservation, using **Flask** and **React** to create interactive elements, ensuring consistent user experience across platforms
- Deployed a Python **Flask** backend on **Google Cloud Platform**, enhancing system reliability and accelerating feature rollout by 30%
- Built a responsive **React** frontend, increasing user engagement by 40% and improving load speeds by 25%
- Consolidated **MongoDB** with **TTL** for session management, stabilizing system load and diminishing the risk of traffic overload by 10%
- Automated CI/CD pipelines with **Jenkins** and managed infrastructure using **Terraform**, reducing setup times by 60% and minimizing deployment errors