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 (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, JUnit, Spring Boot, Ant Design, FastAPI, Redux, Flutter, Fabric.js Developer Tools: Git, Docker, Google Cloud Platform, VS Code, AWS, Jenkins, Nginx, Redis, Kafka, Apache Spark, Apache Hadoop, HDFS, Elasticsearch

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Software Engineer Intern

May 2024 – Aug. 2024

Meituan

Experience

Shanghai, CN

- Refactored Multi-platform System using Spring Boot and Spring Cloud with a microservices architecture, integrating over 20 services. Designed load balancing with Eureka and centralized error handling
- Enhanced Query Performance by optimizing PostgreSQL with combined indexing. Improved execution times under heavy loads and ensured data integrity across key microservices
- Developed Visualization Framework with HTML5 Canvas and Fabric.js for node-based visualizations, supporting dragging, linking, and dynamic updates
- Implemented Adaptive Form Management using HOC and React Context API. Created conditional form generation based on server-driven data, enabling flexible handling of varying inputs
- Improved Frontend State Consistency with Redux-Saga to control asynchronous flows. Applied Optimistic Updates for immediate changes, syncing with backend confirmations

Software Engineer Intern

Aug. 2023 – Jan. 2024

Douller LLC

Tampa, FL

- Developed a Frontend for Trading App using Dart and Flutter, leveraging Provider and Riverpod for state management across dynamic pages. Applied lazy loading to cut initial load times by 20%, improving navigation efficiency for multi-layer transitions
- Optimized Backend with Express and Redis Caching by building a RESTful API with modular routing and middleware. Integrated Redis to cache frequently accessed product lists and user sessions, reducing database query frequency by 40% with a TTL-based strategy to refresh stale data automatically
- Refactored MongoDB Schema to support evolving business, restructuring models, and optimizing indexes. Enhanced query efficiency by refining aggregation pipelines, which reduced 30% query processing time
- Enhanced Search with Elasticsearch by redesigning index configurations for multi-field full-text searches. Improved filtering based on product attributes like description and category allows users to narrow results

Software Engineer Intern

Jul. 2022 – Aug. 2022

 $EdgeDevice.AI\ LLC$

Redwood City, CA

- Designed a Spark-based Data Pipeline to process incoming Kafka streams with distributed transformations for data cleansing and aggregation. Managed 500,000 records per minute using Spark SQL for joins and synced results with MySQL to enable real-time analytics and storage
- Optimized Data Flow with Kafka and Spark to handle streaming and batch workloads. Used window-based streaming in Spark to analyze real-time chunks, processing updates in seconds and automating synchronization with Kafka Connect
- Preprocessed Big Data with Apache Hadoop using MapReduce to clean and standardize multi-source datasets. Developed mappers and reducers to filter and normalize 5 TB of financial data
- Configured HDFS for Scalable Storage to manage distributed datasets. Set up storage strategies in HDFS that supported integration with other systems, handling up to 100 TB monthly

Projects

Interactive Kids Game Website | Python, Flask, React, MongoDB, GCP

Apr. 2023 - Jun. 2023

- Led a team of 5 to develop a Kids' Game Website using Flask and React, creating engaging educational games
- Consolidated MongoDB with TTL indexes for effective session management and automated CI/CD pipelines with GitHub Actions, deploying on Google Cloud Platform