

Jimin Yang

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Education

University of Illinois Urbana-Champaign

Expected Dec 2026

Master of Computer Science | GPA: 3.91/4

The Ohio State University

Aug 2024

Bachelor of Computer Science | GPA: 3.85/4

Experience

Software Engineer Intern

July 2025 - Aug 2025

DBS Bank

Guangzhou, China

- Contributed to DBS corporate internet banking platform serving over 10,000 enterprise clients, delivering **100+ pull** requests to **production** covering bug fixes, validation workflows, and performance optimizations.
- Built a **MySQL**-based distributed lock to resolve race conditions in **microservices**, ensuring atomic trade submissions and preventing duplicate transactions, thus protecting against possible financial losses.
- Developed a **RESTful API** for unified trade form PDFs download by integrating heterogeneous data sources via **WebFlux** and **MyBatis**, eliminating 2,000+ redundant lines of code, which improves system maintainability.
- Achieved 83% code coverage with **Mockito** and **JUnit 5**, integrated into **Jenkins** CI/CD pipeline, resulting in a 50% reduction in system integration testing (SIT) bug reports in the trade module.

Research Assistant

June 2024 - Sept 2024

The Ohio State University

Columbus, OH

- Led the engineering team to build a stateful LLM habit coach with **LangGraph**, which adapts therapeutic strategies to the user stage, increasing weekly active participation by 67% in a 200-user study.
- Built a **RAG** system using **LLaMA**, grounding responses in a longitudinal user database stored in **PGVector** to reduce model hallucinations by 80% and ensure personalized interactions.
- Developed a data pipeline using **Pandas** and **NumPy** to process raw user experimental data, providing key insights for LLM agent optimization and AI in Health for our research team.

Software Engineer Intern

May 2024 - Aug 2024

EduTechnologic, LLC

Columbus, OH

- Deployed a full-stack community platform using **AWS Amplify**, **React**, and **TypeScript**, serving 200+ local artists with 65% improvement in artist profile engagement and 40% increase in event discovery rates.
- Built interactive features with **DynamoDB** for comments and integrated third-party APIs for in-platform music and video streaming, doubling user session duration and strengthening artist-fan engagement.
- Integrated **Stripe API** with **AWS Lambda** for serverless payment processing and automated **webhook** handling to support artist merchandise sales and album purchases.

Projects

TasteSpot | GitHub

- Built a high-concurrency discount shopping platform and streamlined deployment through GitHub Actions.
- Enhanced account security and system scalability by implementing a distributed authentication architecture, utilizing **Redis** for centralized session management, **AWS SNS** for two-factor authentication.
- Designed a high availability solution for flash sales to ensure data integrity by implementing **Redisson** distributed locks, database-level **CAS optimistic locking**, and **RabbitMQ** for asynchronous order processing.

Skills

- Relevant Courses:** Algorithms, Data Structures, Operating Systems, Distributed Systems, Computer Networks, Database, Machine Learning, Data Mining, Web Application
- Languages:** Java, Python, TypeScript/JavaScript, C/C++, SQL, HTML/CSS, Ruby, PHP
- Frameworks & Tools:** Linux, SpringBoot, Node, React, MySQL, PostgreSQL, MongoDB, Redis, Kubernetes, Express, RabbitMQ, Kafka, AWS, Docker, Jenkins, LangGraph, Git, Jira, Confluence, Figma