Shiyang Zhao

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EDUCATION

University of Illinois at Urbana-Champaign, Champaign, IL — Expected Dec 2025
Master of Computer Science — GPA: 3.8/4.0
Arizona State University, Tempe, AZ — Dec 2022
Bachelor of Science in Computer Science — GPA: 3.9/4.0

EXPERIENCE

Software Engineer Intern — Omaha, NE
Civilience — Aug 2024 - Present

- Built serverless RESTful APIs with AWS Lambda, Python (Flask), and Node.js (Express), handling 50,000+ daily requests and improving response times by 22%
- Migrated legacy APIs to microservices architecture, decreasing average request latency from 150ms to 105ms and saving $1,200 annually in server costs
- Implemented real-time monitoring and alerts using AWS CloudTrail and CloudWatch
- Secured authentication with AWS Cognito and managed large-scale data using DynamoDB and RDS
- Automated 100+ IAM role assignments for AWS EC2 and Amplify, saving 30 hours of manual effort each month

Software Engineer — San Jose, CA
Rnd4impact — Mar 2023 - Mar 2024

- Developed secure, scalable backend APIs with Django and PostgreSQL, boosting query time from 350ms to 200ms
- Built Spring Boot microservices with AWS RDS and S3, enabling reliable storage for 500GB+ of data and files
- Created a responsive frontend with Next.js and TypeScript, reducing page load time by 1.5 seconds
- Automated CI/CD pipelines in Jenkins with unit tests, reducing deployment time by 26%
- Enhanced software reliability with Selenium regression tests, resolving 70+ production bugs

PROJECTS

Distributed Stream Processing System – RainStorm ([Link](#)) — Aug 2024 – Dec 2024

- Built HyDFS, a distributed file system with caching, achieving 4x faster reads on a 10-VM cluster
- Designed RainStorm for real-time processing, surpassing Spark Streaming by 15% in throughput
- Improved resilience with 2-second fault detection, state recovery, and dynamic task rescheduling

Social Media Web Application – Metasphere ([Link](#)) — March 2024 - June 2024

- Built a social platform with Reddit-style posts and Instagram-like stories using Django and PostgreSQL
- Secured the platform with OAuth 2.0, supporting Google, GitHub, and Microsoft login
- Enabled real-time interactions with posts, chat, and notifications using WebSocket and Celery

Employee Management System – EmploVerse ([Link](#)) — Nov 2023 - Feb 2024

- Built a feature-rich employee management app using Java Spring, Next.js, and MySQL
- Automated 35% of administrative tasks, including attendance, payroll, and reviews
- Designed role-based dashboards for 6 roles, enabling personalized data access and efficient workflows

SKILLS

Programming Languages: Java, Python, C#, Go, JavaScript, TypeScript
Tools: Spring, Django, Flask, Next.js, Node.js, React.js, Selenium, Jenkins, PostgreSQL, MySQL, MongoDB, Redis, Docker, AWS, GCP