

Shiyang Zhao

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EDUCATION

University of Illinois at Urbana-Champaign, Champaign, IL

Expected Dec 2025

Master of Computer Science

GPA: 4.0/4.0

Arizona State University, Tempe, AZ

Dec 2022

Bachelor of Science in Computer Science

GPA: 3.9/4.0

WORK EXPERIENCE

Civillience

Omaha, NE

Backend Software Engineer Intern

Aug 2024 – Present

- Built serverless APIs with AWS Lambda and API Gateway, reducing response time by 200ms and cutting server costs by 14%
- Secured authentication with AWS Cognito and managed data with DynamoDB and RDS (MySQL)
- Implemented real-time monitoring using AWS CloudTrail and CloudWatch, accelerating issue resolution
- Enhanced access control effectiveness by 16% on AWS EC2 and Amplify through automated IAM roles and policies

Rnd4impact

San Jose, CA

Full Stack Software Engineer

March 2023 - Feb 2024

- Built full-stack web applications with Java, Python, TypeScript, Spring Boot, Next.js, and Django
- Developed RESTful APIs with Spring Boot and Django, integrating Google Cloud and AWS for enhanced cloud functionality
- Reduced deployment time by 26% through automation of build, test, and deployment processes using Jenkins CI/CD pipelines
- Increased software reliability with Selenium regression tests, identifying issues early and reducing bugs by 21%

PROJECTS

Distributed Stream Processing System - RainStorm

Aug 2024 – Present

- Built HyDFS using Java, achieving 3-second eventual consistency and 4x faster reads via client caching on a 10-VM cluster
- Designed RainStorm for real-time stream processing with exactly-once semantics, tolerating up to 2 machine failures
- Optimized batched writes for sub-4-second merges, surpassing Spark Streaming throughput by 15%
- Enhanced resilience with 2-second fault detection and state recovery via HyDFS logs

Social Media Web Application - Metasphere

March 2024 - June 2024

- Developed a social platform blending Reddit-style posts and Instagram-like stories using Django and PostgreSQL
- Enabled real-time interactions with WebSocket, Django Channels, and Celery task scheduling
- Automated CI/CD with Jenkins and Selenium, ensuring seamless deployments
- Improved data retrieval speed by 22% and reduced server costs by 13% through database query optimization and caching

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript

Tools: Spring, Django, Next.js, Node.js, React.js, Selenium, Jenkins, Git, PostgreSQL, MySQL, SQLite, MongoDB, Redis, Linux, Docker, Kubernetes, AWS, GCP, Azure, Heroku