

# 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

Civilience

Omaha, NE

**Backend Software Engineer Intern**

Aug 2024 – Present

- Built serverless RESTful APIs with AWS Lambda, Python (Flask), and Node.js (Express), reducing response time by 50ms and cutting server costs by 14%
- Migrated legacy APIs to a microservices architecture, reducing system latency by 30%
- 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, enhancing access control efficiency by 16% and reducing manual errors by 25%

Rnd4impact

San Jose, CA

**Full Stack Software Engineer**

March 2023 - Feb 2024

- Built backend services with Django and PostgreSQL, delivering secure APIs with role-based access control
- Developed Spring Boot microservices with AWS RDS and S3, enabling scalable data and file storage
- Created responsive frontend applications using Next.js and TypeScript, enhancing user engagement
- Automated CI/CD pipelines in Jenkins with unit tests and containerization, cutting deployment time by 26%
- Improved software reliability with Selenium regression tests, reducing production bugs by 21%

## 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
- Enabled real-time interactions with posts, chat, and notifications using WebSocket and Celery
- Improved backend performance, boosting speed by 22% and reducing server costs by 13%

**Employee Management System – EmploVerse** ([Link](#))

Nov 2023 - Feb 2024

- Built a feature-rich employee management app using Java Spring, Next.js, and MySQL
- Automated 45% of administrative tasks, including attendance tracking, RBAC, and reviews
- Deployed on AWS (S3, RDS, EC2) with auto-scaling for efficient traffic and resource management

## SKILLS

**Programming Languages:** Java, Python, C#, Go, JavaScript, TypeScript

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