

# Yuqi Guo

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## EDUCATION

### Syracuse University (SU)

M.S: Computer Science (GPA: 3.6)

Syracuse, New York

08/2022-05/2024

### University of Liverpool (UoL Joint Program with Xi'an Jiaotong-Liverpool University)

Liverpool, UK

B.S: Information and Computing Science (GPA: 3.4 *First Class*)

09/2017-07/2022

**Relevant Courses:** Data Structures, Algorithms, Operating Systems, Databases, Computer Networking, Human-Computer Interaction, Software Engineering, Mobile Computing, Computer Graphics, Machine Learning

## TECHNICAL SKILLS

**Languages & Frameworks:** Java, Python, PHP, SQL/NoSQL, Node.js, Spring Boot, Flask, Vue.js, JUnit, Hadoop, Next.js

**Tools & Platforms:** AWS, Azure, Heroku, Firebase, Docker, Kubernetes, GitHub, Postman

**Core Skills:** Backend Development, System Design, CI/CD, QA, E2E Testing, Cloud Platform and Database Management

## WORK EXPERIENCE

### CuraStone Corp

Bellevue, WA, United States

Backend Developer Intern | *Spring Boot, REST API, Docker, AWS, CI/CD and E2E Test*

08/2023-12/2023

- Created a PDF-to-interactive learning materials converter with **Spring Boot** and **RESTful APIs**, processing over 5,000 documents in two months; integrated secure **JWT** authentication via **AWS Cognito**.
- Deployed the application on **AWS ECS** via **Docker Containers**, leveraging **DynamoDB** for data management, enhancing scalability and deployment efficiency.
- Implemented **Newman** (via **Postman**) **E2E tests** within GitHub Actions for automated service monitoring and rollback, achieving 99.9% service availability. Conducted robust testing using **Mockito**, **JUnit**, and documented APIs with **Swagger 2**, ensuring high-quality code and effective frontend integration.

### Weina Technology Company

Lanzhou, China

Backend Developer Intern | *Python, Docker & Kubernetes*

9/2021-02/2022

- Developed and maintained backend services for an e-commerce platform using the Python Flask framework, ensuring robust and **scalable application performance**, aligned with the job's emphasis on backend development.
- Led **Kubernetes cluster deployment**, managing containerized applications for scalability and reliability. Implemented load balancing and auto-scaling to ensure Cloud-based application deployment's availability.
- Utilized **Redis** for efficient master/slave node status management in Kubernetes, enhancing **data synchronization** and **system resilience**, which aligns with the job's focus on database management.

## PROJECTS

**TalkNest (Online Chat & Video App)** | *React, Node.js, WebRTC, Socket.io, Firebase and Heroku* 🌐 01/2024-03/2024

- Developed a real-time chat/video app supporting 2000+ messages and 100+ users. [Demo](#)
- Integrated **Firebase** for real-time ``uid`` and ``socketId`` mapping for video calls using **WebRTC** and **Socket.io**.
- Achieved 99.9% deployment success on Heroku with **CI/CD Pipelines** and Cypress for **E2E testing**, automated via **GitHub Actions**.

**PolyglotBot (AI English Content Chatbot)** | *Microservices, Spring Boot, Flask and LLM* 🌐

02/2024-4/2024

- Created a scalable backend for personalized English articles and audio using **OpenAI API**. [Demo](#)
- Deployed using **Docker Containers** on **Heroku**, managed peak user requests with **Load Balancer**.
- Utilized JRebel for **Hot Deployment**, Eureka for **Service Discovery** integrate **Google Cloud** as **API Gateway**.
- Implemented **Circuit Breaker**, **Kafka** for **IPC (Inter Process Communication)**, **Zipkin** for tracing, and monitored with **Prometheus** and **Grafana**.

**Gift Galaxy Microservices** | *Microservices, Spring Boot, Postman, Docker, Kubernetes and Helm* 🌐

02/2023-05/2023

- Engineered a scalable microservices gift recommendation platform using **Docker** and **Helm**.
- Managed **PostgreSQL** and **MySQL** databases with **Docker Compose**, demonstrating orchestration skills.
- Using **Kubernetes Secrets** and **PVCs** for secure storage, and set up a Kubernetes Gateway and load balancer for **service discovery**.

○ Explore more on my [Portfolio](#). Crafted with *Next.js*, *Version-Controlled* via Git, and hosted seamlessly on *Vercel*. 🌐