Yuqi Guo

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EDUCATION

Syracuse University (SU)   Syracuse, New York
M.S: Computer Science (GPA: 3.6)   08/2022-05/2024
University of Liverpool (UoL Joint Program with Xi'an Jiaotong-Liverpool University**)**   Liverpool, UK
B.S: Information and Computing Science (*First Class with Honor*)   09/2017-07/2022

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 API**s, 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 fully documented APIs.

Weina Technology Company   Lanzhou, China
Backend Developer | *Spring Boot, Microservice, Redis, Docker* & *Kubernetes*   02/2021-02/2022

- Developed and maintained backend services for an e-commerce platform using the Java **Spring Boot** framework, ensuring robust and scalable performance.
- Led **Kubernetes** cluster deployment with **Helm** and **Ingress Controller**, managing containerized applications for scalability, load balancing, and auto-scaling.
- Implemented **Redis** for efficient master/slave node status management and **Keycloak** (with JWT Token) for authentication, enhancing system resilience and security.

PROJECTS

PolyglotBot (AI English Content Chatbot) | *Microservices, Spring Boot, Flask and LLM* ⌨   02/2024-4/2024

- Developed a scalable backend for personalized English articles using the **OpenAI API**, implementing secure multi-threaded subscription management with **Pessimistic Locking**. [Demo](#)
- Deployed on **AWS EC2** using **Kubernetes**, containerizing *Zookeeper*, *Kafka*, *MySQL*, *Keycloak* and *PostgreSQL* within a custom **VPC** with public/private subnet.
- Integrated **NGINX** for reverse proxy and utilized API **Gateway**/**Elastic Load Balancer** for effective load balancing during peak traffic.
- Implemented **Circuit Breaker**, **Kafka** for **IPC** (*Inter Process Communication*), **Zipkin** for disturbing tracing, and monitored with **Prometheus** and **Grafana**.

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**.

Gift Galaxy Microservices | *Microservices***,** *Spring Boot, Postman, Docker, Kubernetes and Helm* ⌨   02/2023-05/2023

- Engineered a scalable microservices gift recommendation platform using **Spring Boot**, **Docker** and **Helm**.
- Managed **PostgreSQL** and **MySQL** databases with Docker Compose, demonstrating orchestration skills.
- Implemented secure storage solutions using **Kubernetes Secrets** and **PV/PVC**, and configured Kubernetes **Gateway** and **Load Balancer** for efficient service discovery and traffic management.

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