Yang Yuan

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Professional Summary

Results-driven micro service engineer with 3 years of experience in full-stack development. Proven track record of successfully delivering high-quality software solutions. Expertise in Java, Cloud Service, DevOps and Containerization. Passionate about solving complex problems and driving innovation.

Work Experience

Development Lead | IBM | Pittsburgh | PA   **Jan 2023 – June 2023**

API CoE

➤ Core technology: **GraphQL + OpenShift + MongoDB**
➤ Led the development of a GraphQL API from scratch based on an existing SpringBoot microservice to improve CPU/RAM usage for **single pod deployment** and reduced over-fetching and under-fetching issues.
➤ Designed and implemented GraphQL **schemas** and query **resolvers** to meet specific business requirements and improve overall system performance; Tested with **JMeter**.
➤ Implemented and deployed on OCP with single inner service with multiple query resolvers as well as multiple inner services with single query resolver to compare system **footprint** and **throughput.**

Senior Cloud Developer| IBM | Pittsburgh | PA   **Sep 2021 – Dec 2022**

Delta Zulu

➤ Core technology: **Spring Boot** + **AWS** + **OpenShift**
➤ Worked on design and implementation of a **hybrid cloud** architecture, leveraging **OpenShift** for on-premises deployments and AWS for public cloud integration.
➤ Implemented monitoring and alerting solutions for existing microservices using AWS **CloudWatch** and OpenShift monitoring tools to ensure system performance and availability.
➤ Leveraged AWS services such as **S3**, **VPC**, **Lambda** and **API Gateway** to enhance application functionality, data storage, and processing capabilities in the hybrid environment. Implemented AWS **Codepipeline** for monitoring pipeline to achieve automated **CI/CD** process.

Senior Software Engineer| eBay | San Jose | CA   **Oct 2020 – Aug 2021**

Performance Compensation Tools (PCT)

➤ Core technology: **Spring MVC + JDBC Template + Oracle**
➤ Implemented maintenance, continuous integration, and business analysis for an internal-use web application, ensuring its smooth operation and meeting business requirements.
➤ Utilized **Jira** to perform **Agile** process, **Splunk** to track logs and **Jenkins** as **CI/CD** tool.
➤ Used Checkmarkx for **SAST** scan and OWASP for **DAST** scan, **Sonar Cube** to guarantee code quality.
➤ Conducted unit tests using **Junit4**, **Mockito** and **Jacoco** while ensuring 70% test coverage.

Certifications

AWS Certified Developer – Associate, AWS Certified Solution Architect - Associate

Education

University of Pittsburgh, Pittsburgh, PA   **Aug 2018 – Apr 2020**
Master of Science, Information Science, GPA: 3.65/4.0