# Alen Xia
Software Engineer

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## SUMMARY

- **Backend developer** and **DevOps specialist** with **4+ years** of experience delivering scalable, high-availability **Cloud-Native** and **GenAI** applications.
- Proficient in **Java** and **Python**, with deep knowledge of distributed systems, microservices, and containerization.
- Extensive hands-on expertise with **AWS**, with a proven track record in designing and automating **CI/CD** pipelines and optimizing cloud infrastructure to consistently enhance performance and achieve substantial cost savings.
- Years of practical experience in **Agile** development. Skilled in collaboration, problem-solving, and clear communication with both technical and non-technical teams.

## SKILLS

### JAVA-BASED BACKEND DEVELOPMENT
- Java.
- Spring MVC, Spring Boot, Spring Cloud.
- Hibernate, Querydsl, MyBatis.
- Junit, Spock, Groovy.
- Zookeeper, AWS MQ, RabbitMQ.
- Selenium.

### PYTHON-BASED BACKEND DEVELOPMENT
- Python.
- FastAPI.
- Pandas, NumPy.
- Playwright.

### AWS CLOUD COMPUTING & DEVOPS
- AWS Services.
- CI/CD Automation, Cloud Resource Optimization, Access Management, Authentication, Encryption, Security & Compliance, Troubleshooting.
- AWS CDK, AWS CloudFormation, AWS CodePipeline.

### DEV TOOLS & PROJECT MANAGEMENT
- IntelliJ IDEA, PyCharm, VS Code.
- Git, GitHub, GitLab, AWS CodeCommit.
- Gradle, Maven, Flyway, JWT.
- Teams, Jira, Confluence, Eraser.
- Agile.
- RESTful API, WebSocket, OpenAPI v3.

### AI APPLICATION DEVELOPMENT
- PyTorch.
- LangChain, LCEL, Agent, RAG, Memory, LangGraph, LangSmith.
- AWS SageMaker, AWS Bedrock.
- AWS OpenSearch, Pinecone.

### CONTAINERIZATION & ORCHESTRATION
- Docker.
- Kubernetes, AWS ECS, AWS Kubernetes.

### DATABASES
- MySQL, Performance Tuning, Indexing, Transactions.
- Oracle, PostgreSQL.
- AWS DynamoDB.
- Redis.

### QUARKUS & NATIVE IMAGE
- Quarkus.
- GraalVM, Native Image.

### FRONTEND & UI DESIGN
- JavaScript.
- React.
- Next.js.
- Tailwind CSS

## WORK EXPERIENCES

### SENIOR CLOUD ENGINEER

**PwC | June 2021 - June 2024**

Responsibilities: Worked as a Cloud Engineer, leading end-to-end cloud-native architecture design and implementation, collaborating with global teams to deliver cutting-edge cloud and AI solutions.

Tech Stacks: Java, Python, FastAPI, LangChain, LangGraph, LangSmith, Pinecone, Quarkus, GraalVM, AWS, Azure, Docker, Kubernetes, Hibernate, Querydsl, MySQL, Oracle, PostgreSQL, Redis, Flyway, Maven, Groovy Scripts, Spock, Git, OpenAPI.

- Led the design and development of cloud-native applications, including AWS architecture and machine learning integration.
- Developed innovative Generative AI solutions using LangGraph, AWS Lambda, Azure Functions, and SageMaker, optimizing system performance and building intelligent chatbots.
- Built and deployed Java-based cloud-native web applications using Quarkus and GraalVM for native image generation, in

collaboration with a cross-timezone team.

- Spearheaded the migration of enterprise infrastructure to AWS, setting up key cloud resources such as VPC, databases, and containerized applications.
- Successfully delivered multiple project milestones, including implementing cutting-edge generative AI technologies, consistently exceeding project expectations.

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### JAVA DEVELOPER
**Kindo | March 2020 – June 2021**

Responsibilities: Java Developer responsible for building scalable medical data systems and ensuring system stability and high performance across key hospital networks.

Tech Stacks: Java, Spring Boot, Spring MVC, Maven, MyBatis, MySQL, JUnit, Git, Linux, Tomcat, Nginx.

- Developed scalable medical data analysis systems using Java and the Spring Boot framework.
- Deployed and maintained systems on-site, ensuring smooth operation and performance optimization at major hospitals.
- Optimized core system code for enhanced stability and performance, reducing downtime and improving system efficiency.

## 📖 EDUCATION

### BACHELOR OF SCIENCE
**University of Melbourne | March 2016 – December 2019**
Major: Computing and Software Systems

## 🖼️ CERTIFICATIONS

**AWS Certified DevOps Engineer – Professional**
October 2023

**AWS Certified SysOps Administrator – Associate**
October 2022

**AWS Certified Solutions Architect – Associate**
June 2022

**AWS Certified Developer – Associate**
October 2021