

Amey Deshpande

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SUMMARY

Innovative Senior Software Engineer with 5+ years specializing in high-performance Java microservices and cloud architecture at Barclays, a Fortune 500 financial institution. Pioneered distributed systems that reduced operational costs by £70K annually while handling 10K TPS with sub-millisecond latency. Expertise in GenAI implementation, having created automated microservice generators that cut development time by 50%.

SKILLS

GenAi, Java, Spring Boot, Kafka, ReactJs, AWS, GoLang, Python, SQL, MongoDB, Redis, Agile, DSA, DevOps, Jenkins, Cloud, Kubernetes, Data Analysis, Prompt Engineering

WORK EXPERIENCE

Barclays

Aug 2020 - Present

SDE2 (BA4 Engineer/Developer)

- Designed and implemented cloud-native microservices architecture for scalable, high-performance solutions using Java, Spring Boot, and AWS.
- Collaborated with cross-functional teams to enhance product quality, ensuring adherence to best practices and maintainable code.
- Mentored junior developers, fostering growth in design principles, algorithms, and distributed system architecture.

PROJECTS

Microservice Generator Using GenAi

- Developed an AI-powered microservice generator that produces production-ready services from OpenAPI Specifications and requirement documents, reducing new service development time by 50%.
- Implemented advanced templating and code generation techniques that ensured consistent architecture patterns across 20+ successfully generated microservices.
- Established an automated workflow that eliminated repetitive coding tasks, saving an estimated 800+ development hours annually and allowing developers to focus on complex business logic.
- Spring Boot, Java, GPT-4/Ollama, Python, REST API, Jenkins, Maven, Docker

Event-driven Notification System

- Designed and implemented a real-time event-driven system for monitoring user activities, achieving 99.97% message delivery success rate and handling 2,000+ TPS.
- Architected fault-tolerant notification pipelines with dead-letter queues and automatic retry mechanisms, eliminating message loss during system disruptions.
- Delivered 60% improvement in customer retention through timely digital interaction alerts and personalised notifications based on user behaviour analysis.
- Apache Kafka, Spring Boot, Java, Kafka, Redis, Jenkins

Distributed Cache Cluster

- Architected a resilient, cloud-native cache cluster spanning two data centers, reducing average response times from 200ms to 2-3ms while handling 10,000 TPS during peak traffic.
- Implemented intelligent cache invalidation strategies and data partitioning techniques that decreased downstream systems load by 25% in high-volume environments.
- Engineered automatic failover capabilities and cross-datacenter redundancy to ensure 99.999% system availability, eliminating service disruptions during maintenance periods.
- Java, Spring Boot, Apache Ignite/GridGain, Redis, AWS, Docker, Prometheus, Grafana

EDUCATION

Pune Institute of Computer Technology

Aug 2016 - May 2020

Bachelor of Engineering

CERTIFICATIONS

Applied Natural Language Processing

NPTEL