

Akshay Khan

Software Developer

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SUMMARY

Software Developer with 5+ years of experience building scalable microservices and cloud-native applications using Java 17/21, Spring Boot, Spring Cloud, REST APIs, GraphQL, and event-driven architectures. Experienced in AWS, GCP, Azure, Kafka, RabbitMQ, Docker, Kubernetes, CI/CD pipelines, and databases (PostgreSQL, MySQL, MongoDB, Redis). Skilled in DevOps, security, observability, and performance optimization.

SKILLS

Programming Languages: Java 17/21, Python, JavaScript, SQL, Shell Scripting

Backend Frameworks & Architecture: Spring Boot 3.x, Spring Cloud, Microservices Architecture, REST APIs, GraphQL, Event-Driven Architecture, CQRS, Reactive Programming

Cloud Platforms: AWS (ECS, EKS, Lambda, RDS, S3, CloudWatch, IAM), GCP (Cloud Run, Pub/Sub), Azure (AKS, Azure DevOps Pipelines), Terraform (basic), Helm (basic)

Messaging & Integration: Apache Kafka, RabbitMQ, API Gateway, Webhooks, Asynchronous Messaging Patterns

Databases & Storage: PostgreSQL, MySQL, SQL Server, MongoDB, Redis (Caching), Query Optimization, Indexing & Partitioning

DevOps & CI/CD: Docker, Kubernetes (EKS/GKE/AKS), Jenkins, GitHub Actions, Azure DevOps, Maven/Gradle, Blue-Green Deployments

Security & Compliance: Spring Security, OAuth2, JWT, SAML, API Rate Limiting, PCI-DSS Basics, Secrets Management

Observability & Testing: OpenTelemetry, Prometheus, Grafana, ELK Stack (basic), JUnit 5, Mockito, RestAssured, Performance Profiling & Load Testing

EXPERIENCE

American Express, USA

Oct 2024 - Present

Software Developer

- Designed and executed microservices using Java 17, Spring Boot, and Spring Cloud, handling high-volume payment transactions with 99.9% uptime, ensuring low latency and reliable system performance.
- Developed REST APIs and GraphQL endpoints supporting internal and external applications, integrating with payment workflows, reducing response time by 30% and improving system interoperability.
- Built event-driven pipelines using Kafka, processing real-time transaction events and improving downstream service efficiency.
- Managed AWS infrastructure (ECS, Lambda, RDS, S3, CloudWatch) for deployment, monitoring, and scaling of cloud-native applications with automated failover strategies.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, enabling automated testing and deployments, reducing deployment time from 3 hours to 20 minutes while maintaining zero downtime.
- Ensured application security and compliance with Spring Security, OAuth2, JWT, and Secrets Manager, enforcing encryption, access control, and secure secret management across services.

Infosys, India

Mar 2020 – Dec 2023

Software Developer

- Developed and maintained enterprise microservices using Java 11/17 and Spring Boot, improving transaction reliability and service availability for mission-critical applications across multiple business domains.
- Integrated messaging systems (Kafka, RabbitMQ) and webhooks, enabling asynchronous communication, reducing system bottlenecks, and improving end-to-end data processing efficiency.
- Optimized PostgreSQL, MySQL, MongoDB, and Redis queries and caching strategies, achieving 25–40% faster response times for API calls and critical data retrieval operations.
- Designed and applied API gateways and service integrations, enabling secure, standardized communication between microservices, external clients, and third-party applications.
- Developed and maintained CI/CD pipelines using Jenkins and Azure DevOps, automating builds, tests, and deployments, improving release frequency and reducing manual errors.
- Monitored and troubleshooted applications using Prometheus, Grafana, and ELK Stack, proactively resolving issues, reducing system downtime, and ensuring high observability and operational efficiency.

EDUCATION

Master of Science in Computer Information Systems

Jan 2024 – Dec 2024

University of Central Missouri, Warrensburg