

Aditya Thakur

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Software Engineer with over 7 years of experience
Nagarro Software Pvt. Ltd.

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GitHub Contributions ↗ LinkedIn ↗

Seasoned Java Backend and DevOps Platform Engineer seeking opportunities to apply strong technical expertise and emerging AI skills to build robust and scalable applications.

SKILLS

- **Languages/Frameworks/Libraries:** Java, Spring Boot, Spring Cloud, Spring Security, Spring WebFlux, Reactive with Mono/Flux and Mutiny (Uni/Multi), WebClient, RestTemplate, Feign Client, AOP, Quarkus native, JWT/OAuth2, MapStruct, Jackson, Gson, Lombok, Log4j/Slf4j, Micrometer, OpenTelemetry, Shell (Bash), JavaScript/TypeScript, SQL, Python, NodeJS, ReactJS
- **Architecture:** Microservices Architecture, Event-Driven Architecture, Distributed Systems, REST APIs, API-first, Design Patterns, SOLID Principles, Distributed Observability with centralized logging and tracing
- **Messaging and Streaming:** Apache Kafka (Producers, Consumers, Streams, Connectors), Debezium CDC
- **Persistence, Search and Caching:** JPA/Hibernate, Panache, PostgreSQL, MySQL, Oracle SQL, Aurora DB, MongoDB, Redis/Valkey Cache, Flyway
- **Developer Tools:** IntelliJ IDEA, VS Code, STS, Git, Maven, Gradle, SonarQube, Postman, DBeaver, pgAdmin, Atlassian Jira, ServiceNow, GraalVM
- **DevOps and Cloud:** GitHub Actions, Docker, Kubernetes, Helm Charts, KEDA, AWS (EKS, ECR, S3, RDS, CodePipeline, CodeBuild, Secrets Manager, CDK), Jenkins, GCP (GKE, Compute Engine)
- **Tools/Platforms:** Git, ArgoCD, Prisma Cloud Compute, Istio Service Mesh, Terraform, Backstage
- **Observability and Performance:** Grafana, Prometheus, Splunk, Dynatrace, Kibana, VictorOps, Distributed Tracing, JMeter, Profiling and Performance Tuning
- **AI-Assisted Development and Automation:** Prompt Engineering, AI Code Migration, Developer Automation, RAG Architecture, Vector Databases, AI Tools (ChatGPT, Claude, GitHub Copilot, Amazon Bedrock)
- **Testing and Documentation:** JUnit, Mockito, Swagger UI/OpenAPI, Performance Testing with K6, Contract Testing with Microcks, mkdocs, Atlassian Confluence
- **Data Formats and Standards:** JSON, YAML, XML, AVRO, OpenAPI Specification, Markdown, HTML
- **Domain Experience:** Fintech Financial Systems, E-Commerce and Retail
- **HomeLab and AI/ML:** IoT, Home Automation with HomeAssistant, Proxmox, LLM, Ollama, Gradio, ComfyUI, n8n

EXPERIENCE

- **Nagarro - Digital Product Engineering Platform** Remote, Jul. 2021 - Present
Platform Engineering, CRM - Associate Staff Engineer
 - **Multi-tenant Microservices, Frameworks and Build Plugins:** Produced production-grade observability, security, database and Kafka starter libraries ensuring comprehensive system functionality and increased development efficiency. Developed plugins for OpenAPI and AsyncAPI/AVRO specifications, facilitating code generation and scaffolding with Projén. Used by over 100 microservices for rapid API-first development.
 - **Event-driven:** Designed and established loosely coupled distributed systems using Spring Boot, Quarkus (Native), Apache Kafka, and Debezium (CDC) for real-time data streaming and high throughput processing. Owned Enterprise-grade notification service utilizing Kafka connectors.
 - **Cross-cutting DevOps and Security concerns:** Created and improved Docker base images with 58% size reduction and 43% reduction in security vulnerabilities. Used capabilities like multi-stage and multi-arch for increased efficiency. Strengthened security with GitHub Actions checks like SonarQube and established a robust tagging and versioning flow. Achieved 80% and 33% run time reduction respectively in checkstyle and other checks.
 - **Cost and performance optimization with AI/MLOps:** Prepared AI agents and MCP Servers with Amazon Bedrock, Amazon SageMaker and Claude to migrate from Spring Boot 3 to Quarkus 3 (native) with performance test metrics showing over 150% throughput improvement or 50% reduced resource consumption and 86% reduced Docker image size.
 - **Cloud Automation and SRE:** Provisioned infrastructure with AWS CDK constructs in TypeScript to manage CloudFormation templates and CI/CD pipelines in Bash script; Deployed services with Helm Charts and ChartMuseum; System monitoring, alerting and troubleshooting with tools like Splunk, Dynatrace, Grafana, Tempo and Prometheus.
 - **Migration:** Assisted in the transition from monolith to microservice architecture, enhancing scalability with 20% reduction in time-to-market.
 - **E-commerce and CRM Development:** Designed and developed a revamped e-commerce platform and CRM gateway, improving user experience and system efficiency.
 - **CRM Gateway Request Processing:** Accepted, processed and routed Account and Appointment bookings from different sources with query and mutation. GraphQL, Netflix DGS library, CRUD, Agile
 - **Tool Integration:** Integrated with external tools like Salesforce, Exponea and LeadSquared.
- **Verifone India Pvt. Ltd. - A Payment Gateway Company** Bangalore, Mar. 2019 - June 2021
Microservices Orchestrator and Payment Processors - SDE
 - **Workflow Definition:** Created a fully flexible structure to define microservices workflow customized for multiple markets using Spring Beans, Spring Async, and Spring Retry to handle exceptions and send custom responses.
 - **JSON and HEX:** Translated JSON from Terminal/POS payment devices into Acquirer-specific HEX requests and response back to JSON. Java 8, OOP principles, SOLID design

- **FOREX Integration:** Communicated with FOREX Rate processing provider over HTTP using REST and JSON.
- **Code Development and Repository Management:** Spearheaded code development, configuration, and administration of Bitbucket repositories and Jenkins jobs.
- **Performance Optimization:** Achieved a 90% reduction in execution time through custom benchmarking using Java Microbenchmarking Harness (JMH).
- **Project Deliveries:** Delivered critical payment domain projects for both internal stakeholders and international clients, ensuring high standards of quality and timeliness.

PROJECTS

- **PG-DAC, ACTS** Pune
Java Developer *Aug. 2018 - Feb. 2019*
 - **Web Application Development:** Implemented a web app for student-faculty interaction within a month.
- **AndroAddyct** Remote
Android App Development Freelancer *May 2016 - Dec. 2016*
 - **Application Lifecycle Management:** Managed the application lifecycle having about 900 active user devices across 175 countries/regions.

ACCOLADES, RECOGNITION AND CERTIFICATIONS

- **Nagarro**
Review and Feedback
 - **2025:** Engineering Excellence Award
 - **Consistent:** Extraordinary Role Model, Highly Valuable feedback
- **Udemy**
Certifications
 - **AI/ML:** Completed Training on LLM Engineering, Generative AI, Agentic AI Engineer and AI Engineer Production Track
 - **DevOps:** Kubernetes, Docker, Git
 - **JavaScript:** NodeJS, ReactJS
- **KodeKloud**
Certifications
 - **AWS:** Basics, ECS
 - **DevOps:** Kubernetes

EDUCATION

- PG-DAC from CDAC-ACTS, Pune, MH (79.25%)
- B.E. from MIET(RTMNU), Gondia, MH (78.80%)