

# Aditya Thakur

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

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

[engg.aditya.thakur@gmail.com](mailto:engg.aditya.thakur@gmail.com)  
[GitHub Contributions](#) [LinkedIn](#)

## 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 Mockrocks, 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 *Platform Engineering, CRM - Associate Staff Engineer*

Remote, Jul. 2021 - Present  
*Java 21, Gradle, Docker, Eventing, AWS, AI*

- **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 Projen. 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 *Microservices Orchestrator and Payment Processors - SDE*

Bangalore, Mar. 2019 - June 2021  
*Java 11, Spring Boot 2, Tomcat, Maven*

- **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

- Latest Resume ↗

  - **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%)