

# Aditya Thakur

Software Engineer with over 7 YOE  
Nagarro Software Pvt. Ltd.

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[GitHub Contributions ↗](#) [LinkedIn ↗](#)

Java Microservices Backend and DevOps Platform Engineer looking for opportunities to apply strong technical expertise and emerging AI skills to build robust, intelligent, 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 & Streaming:** Apache Kafka (Producers, Consumers, Streams, Connectors), Debezium CDC
- **Persistence, Search & 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 & 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 & Performance:** Grafana, Prometheus, Splunk, Dynatrace, Kibana, VictorOps, Distributed Tracing, JMeter, Profiling & Performance Tuning
- **AI-Assisted Development & Automation:** Prompt Engineering, AI Code Migration, Developer Automation, RAG Architecture, Vector Databases, AI Tools (ChatGPT, Claude, GitHub Copilot, Amazon Bedrock)
- **Testing & Documentation:** JUnit, Mockito, Swagger UI/OpenAPI, Performance Testing with K6, Contract Testing with Microcks, mkdocs, Atlassian Confluence
- **Data Formats & Standards:** JSON, YAML, XML, AVRO, OpenAPI Specification, Markdown, HTML
- **Domain Experience:** Fintech Financial Systems, E-Commerce & Retail
- **HomeLab & 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 & Build Plugins:** Production-grade observability, security, database & Kafka starter libraries ensuring comprehensive system functionality & increased development efficiency. Developed plugins for OpenAPI and AsyncAPI/AVRO specifications, facilitating code generation and scaffolding with Projen. Used by around 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 & Security concerns:** Created & improved Docker base images with 58% size reduction & 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% & 33% run time reduction respectively in checkstyle & other checks.
- **Cost & 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 perf test metrics showing over 150% throughput improvement or 50% reduced resource consumption & 86% reduced Docker image size.
- **Cloud Automation & SRE:** Provisioned infrastructure with AWS CDK constructs in TypeScript to manage CloudFormation templates & CI/CD pipelines in Bash script; Deployed services with Helm Charts & ChartMuseum; System monitoring, alerting & troubleshooting with tools like Splunk, Dynatrace, Grafana, Tempo & 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 & routed Account & Appointment bookings from different sources with query and mutation. GraphQL, Netflix DGS library, CRUD, Agile
- **Tool Integration:** Integrated with external tools like Salesforce, Exponea & LeadSquared.

### Verifone India Pvt. Ltd. - A Payment Gateway Company

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

#### 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 & HEX:** Translated JSON from Terminal/POS payment devices into Acquirer-specific HEX requests & response back to JSON. Java 8, OOP principles, SOLID design

- **FOREX Integration:** Communicated with FOREX Rate processing provider over HTTP using REST & 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

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- **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*
  - **App Lifecycle Management:** Managed app lifecycle with about 900 active user devices across 175 countries/regions.

## ACCOLADES, RECOGNITION & CERTIFICATIONS

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- **Nagarro**
- *Review & 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

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