

# Aditya Thakur

Software Engineer with about 7 YOE  
Open Source Contributions on [GitHub](#)

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## PROJECTS

- **Platform Engineering** Mar. 2022 - Present  
*Nagarro* *Java 21, Gradle, Docker, Eventing, AWS, AI*
  - **Multi-tenant Microservices, Frameworks & Build Plugins:** Implemented observability, security, database & Kafka starter libraries ensuring comprehensive system functionality & increased development efficiency. Notification service utilizing Kafka connectors. 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.
  - **Cross-cutting DevOps & Security concerns:** Created, managed & 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 MLOps:** Prepared AI assistance tooling like MCP Server with AWS Bedrock and Claude and migrated 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.
- **Microservices Orchestrator** Oct. 2019 - June 2021  
*Verifone India Pvt. Ltd.* *Java 11, Spring Boot 2, Tomcat, Maven*
  - **Workflow Definition:** Created a fully flexible structure to define microservices workflow using Spring Beans, Spring Async, and Spring Retry to handle exceptions and send custom responses.
- **Terminal/POS Payment & FOREX Rate Processors** Mar. 2019 - Sept. 2019, Jan. 2021 - June 2021  
*Verifone India Pvt. Ltd.* *Java 8, OOP principles, SOLID design*
  - **JSON & HEX:** Translated JSON from payment devices into Acquirer-specific HEX requests & response back to JSON.
  - **FOREX Integration:** Communicated with FOREX provider over HTTP using REST & JSON.
- **Customer Resource Management(CRM) Gateway** July 2021 - Feb. 2022  
*Nagarro* *GraphQL, Netflix DGS library, CRUD, Agile*
  - **Request Processing:** Accepted, processed & routed Account & Appointment bookings from different sources with query and mutation.
  - **Tool Integration:** Integrated with external tools like Salesforce, Exponea & LeadSquared.

## EXPERIENCE

- **Nagarro - Digital Product Engineering Platform** Remote  
*Associate Staff Engineer* *July 2021 - Present*
  - **Migration:** Assisted in the transition from monolith to microservice architecture enhancing scalability.
  - **E-commerce and CRM Development:** Designed and developed a revamped e-commerce platform and CRM gateway, improving user experience and system efficiency.
- **Verifone India Pvt. Ltd. - A Payment Gateway Company** Bangalore  
*Software Development Engineer* *Feb. 2019 - June 2021*
  - **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.
- **PG-DAC, ACTS** Pune  
*Java Developer* *Aug. 2018 - Feb. 2019*
  - **Web Application Development:** Implemented a web app for student-faculty interaction.
- **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.

## SKILLS

- **Languages:** Java, Shell (Bash), JavaScript/TypeScript, SQL
- **Frameworks/Libraries:** Spring Boot, AOP, Quarkus native, JUnit, Mockito, MapStruct, Jackson, Gson, NodeJS, ReactJS
- **Tools/Platforms:** Git, Kubernetes, ArgoCD, Prisma Cloud Compute, REST, Istio Service Mesh, Terraform, Backstage, Dynatrace, K6
- **HomeLab & AI/ML:** Python, IoT, Home Automation with HomeAssistant, Proxmox, LLM, Ollama, Gradio, ComfyUI, n8n

## EDUCATION

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