

# Aditya Thakur

Software Engineer with about 7 YOE

Open Source Contributions on GitHub

[Latest Resume](#)

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## PROJECTS

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- **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 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.
  - **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

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- **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

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- **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

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