Aditya Thakur

Software Engineer with over 6 YOE & Open Source GitHub Contributions ↗

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PROJECTS

Platform Engineering — Mar. 2022 - Present
Nagarro — *Java 21, Gradle, Docker, Event-driven, AWS*

- **Microservices & Framework**: Implemented observability, security, database & Kafka starter libraries ensuring comprehensive system functionality & increased development efficiency. Notification service utilizing Kafka connectors.
- **Build Plugins**: 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 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.
- **Security Protocols**: Strengthened security with GitHub Actions checks and established a robust tagging and versioning flow. Achieved 80% & 33% run time reduction respectively in checkstyle & other checks.
- **Cost-cutting & performance**: 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, Grafana, Tempo & Prometheus.
- **Highlights**: Cross-functional, smart, modular, scalable & well-documented.

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 Android 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, SonarQube, REST, Istio Service Mesh, Terraform, Backstage, Dynatrace, K6

- **Hobby projects**: Python, IoT, Home Automation, AI/ML with LLM, Ollama, Gradio, ComfyUI, n8n

EDUCATION

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