

Ankit Patil

Staff Software Engineer

Indore, India | ankitiips@gmail.com | +91 8144179607
ankitpatil.pages.dev | linkedin.com/in/ankit-patil-3a320087

Summary

Staff Software Engineer with 12 years of experience designing and building distributed backend systems using Java, Spring Boot, and AWS. Expertise in system design, microservices, event-driven architecture, REST and gRPC APIs, PostgreSQL, Kafka, MQTT, and multi-tenant SaaS platforms. Proven track record of architecting cloud-native systems processing millions of daily events and delivering scalable enterprise software through Agile/Scrum delivery.

Experience

Staff Software Engineer, Akteena, Indore, India

July 2024 – Present

- Led the system design and architecture of Aether, a multi-tenant IoT platform of 16+ Spring Boot microservices supporting 3,000+ connected vehicles across device management, OTA firmware delivery, telemetry ingestion, event processing, and audit logging
- Built an event-driven notification platform on AWS Kinesis and SQS, processing 5.7M+ messages daily at 200+ messages/sec peak across 2,000 devices
- Established core platform services: a tenant-aware authorization layer on top of Auth0, a PostgreSQL-backed three-tier rate limiting system (system floors, tenant quotas, user allocations), and an event processing pipeline on AWS Kinesis
- Engineered an OTA command state machine with persistent queues, correlation IDs, and idempotent retry handling, eliminating command loss from the prior retained-message delivery design
- Delivered 100+ production-grade REST APIs using Spring Boot for high-throughput IoT workloads (GPS, diagnostics, driver-behavior data), sustaining sub-200ms response times under live device load
- Designed multi-tenant architecture with hierarchical entitlements, enabling new enterprise fleet customers to onboard without platform changes, with tenant-level data isolation secured via Auth0 and a custom RBAC layer
- Mentored engineers through architecture and code reviews, raising engineering standards and accelerating onboarding

Senior Software Engineer II, Delphix, Indore, India

Aug 2022 – July 2024

- Led cross-technology integrations on Data Control Tower (DCT), eliminating manual steps in customer data-management workflows
- Built a Go-based Terraform provider for Delphix, giving customers infrastructure-as-code control over DCT resource management
- Developed a Jenkins plugin in Java enabling CI/CD pipelines to trigger DCT operations directly, removing manual handoffs from automation workflows
- Delivered a ServiceNow integration automating data copy, provisioning, and masking through DCT, cutting turnaround time on customer data requests
- Extended DCT's API Gateway with new endpoints, expanding integration capability for downstream systems
- Built Python-based connectors for MySQL, HANA, and Salesforce, adopted by 10+ enterprise customers to virtualize datasets spanning millions of records, extending Delphix's data virtualization support to new enterprise data sources

Senior Software Developer, Oracle, Hyderabad, India

July 2019 – Aug 2022

- Modernized legacy Java/Spring codebases by modularizing monolithic components, cutting long-term maintenance costs and improving deployment velocity
- Rebuilt core search functionality for a platform processing millions of orders daily, improving accuracy and reducing support escalations
- Owned the full lifecycle of multiple features in an Agile/Scrum environment: performance analysis, system design, development, and testing
- Resolved critical production defects in long-running background batch processes underpinning daily order processing, restoring service reliability under tight SLAs
- Integrated REST APIs into a legacy monolith, laying the groundwork for a modular, service-oriented architecture

Software Developer, Standard Chartered Global Business Services, Chennai, India

July 2014 – July 2019

- Built a client portfolio application serving as the single source of truth for client data, consumed by every customer-facing bank interface
- Designed a configurable File Cleaner Service to sanitize incoming files, and a shared Logger Service standardizing log rolling across all bank applications, cutting cross-team debugging effort

Education

National Institute of Technology, Trichy – MCA, Computer Applications (GPA: 7.9)

Jan 2011 – Jan 2014

Trichy, India

Skills

Languages: Java, Go, Python

Core Java: Collections, Concurrency, Multithreading, JVM Performance Tuning

Backend: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Spring Cloud, Spring Actuator, Hibernate, Quartz, gRPC

Architecture: Microservices, System Design, Distributed Systems, REST APIs, Event-Driven Architecture, Multi-Tenant SaaS, High Availability, Scalability

Databases: PostgreSQL, Oracle, MongoDB, SQL, Query Optimization, Indexing, Connection Pooling

Cloud: AWS (EC2, ECS, S3, IAM, RDS, Lambda, Kinesis, SQS, CloudWatch, API Gateway, Auto Scaling, VPC, Route53, ALB, NLB, ACM), Docker, Terraform

Messaging & Streaming: MQTT, EMQX, Kafka, WebSockets, HTTP

Process & Delivery: Agile, Scrum

Security, CI/CD, Tools & Testing: Auth0, OAuth 2.0, JWT, RBAC, Jenkins, GitHub Actions, Maven, Git, Tomcat, ServiceNow, Ant

Media Server, JUnit, Mockito, PyTest