

GAURAV RATNAWAT

Berlin, Germany

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Technical leader with 10+ years of experience in backend, distributed, and cloud systems. Skilled in leading engineering teams, designing scalable architectures, and delivering high-quality software using agile and CI/CD practices. Proven ability to mentor engineers and drive cross-team technical excellence.

WORK EXPERIENCE

N26 GmbH, Berlin Germany Lead Software Engineer	Sep 2022 - Present
Thoughtworks, Gurgaon Tech Lead	Mar 2020 - Sep 2022
Q3 Technologies, Gurgaon Senior Developer	Dec 2017 - Mar 2020
Amdocs, Gurgaon Software Engineer	May 2017 - Dec 2017
Tata Consultancy Services, Gurgaon Engineer - Technology	Oct 2015 - Apr 2017

PROJECTS

Transaction Data Platform – N26 Bank

- **Led the architecture and delivery** of an event-driven Transaction Data Platform powering compliance, product, and regulatory use cases.
- **Owned end-to-end platform responsibility**, from migration strategy to production stability and long-term evolution.
- Built **Kafka-based ingestion pipelines** processing **500M+ transactions/month** with **<1s end-to-end latency**.
- Achieved **99.99% uptime** through AWS-native failover and region-aware deployments.
- Designed **low-latency microservice APIs (P99 < 1s, ~1.5K RPS)** on Kubernetes.
- Delivered **GDPR-compliant data deletion** across **20+ systems** and reduced **MTTR by 30%** via improved observability.
- **Mentored engineers, reviewed designs, and influenced architectural decisions** across teams consuming the platform.

Technologies: Kotlin, Java 17, Spring Boot 3, Kafka, PostgreSQL (Aurora + RDS), Redis, Lakehouse (Flink + S3 + Glue + Athena), Kubernetes, AWS, OpenSearch, Datadog, GitHub Actions

N26 Assistance Application Module

- Contributed to a banking assistance system integrating multiple internal and external services.

- Designed request routing logic based on **user intent identification**, improving response accuracy and system efficiency.
- Automated end-to-end workflows, reducing manual intervention and operational overhead.

Dealer Locator Service, Major Construction Equipment Manufacturer, USA

- Developed **3 RESTful APIs** for geocoding based on address, IP, and coordinates.
- Improved database performance by introducing **RDS read-replica auto-scaling**, increasing TPS from **48 → 126**.
- Built custom CloudWatch metrics and **10+ production dashboards** to monitor system health and traffic patterns.
- Established CI/CD pipelines in Azure DevOps and added performance and integration tests, reducing pipeline runtime by **5 minutes**.
- Led client-facing technical discussions, performed **10+ production root-cause analyses**, and onboarded **4 engineers**.

Technologies: Spring Boot, Microservices, Java 11, Postgres(PostGIS), Jooq, Karate, Gatling, Azure DevOps, AWS, RestAPI.

Telematics IoT Project

- Analyzed multiple IoT device specifications and translated requirements into user stories.
- Customized the SiteWhere open-source IoT framework to support project-specific device workflows.

SKILLS

Practices	Agile (Scrum, Kanban), Test-Driven Development (TDD), XP Practices
Design Patterns	Factory, Builder, Strategy, Adapter, Circuit Breaker, Retry, Bulkhead, CQRS, Saga
Architectures	Microservices, Event-Driven Architecture, Service-Oriented Architecture, Monolith, Distributed Systems, Streaming Architectures
Programming Languages	Kotlin, Java (11–21) Working Knowledge: Go, TypeScript (NestJS), Vue.js
Frameworks	Spring Boot, Quarkus, Hibernate, JOOQ, QueryDSL, Sitewhere IoT Framework
Messaging & Streaming	Kafka, Kafka Streams, AWS SQS, AWS Kinesis, ActiveMQ
Databases & Data Platforms	PostgreSQL, AWS Aurora, AWS RDS, MongoDB, Azure SQL Server, Lakehouse (S3, Glue, Athena)

Cloud & Infrastructure	AWS, Azure, GCP, Kubernetes, Docker, Infrastructure Resilience, Multi-Region Deployments
Deployment & DevOps	GitHub Actions, Argo CD, Azure DevOps, Jenkins, Git, SonarQube, Qodana
Observability & Reliability	Datadog, OpenSearch, CloudWatch, Metrics, Tracing, Alerting, SLA / SLO, MTTR Reduction
Testing & Quality Engineering	JUnit, Mockito, Karate (Integration & Contract Testing), Gatling, JMeter (Performance Testing)
Security & Compliance	GDPR Data Deletion, Data Lineage, PII Handling, Secure API Design, Audit-Ready Systems

EDUCATION

Bachelor of Technology in Computer Science and Engineering from RGTU, Bhopal (India) in 2015.

CERTIFICATIONS

Spoud Kafka Developer Training – Dec 2025 | Credential ID: f91eecd7-ddd6-4ca3-aa47-7fd1f1eb6a2a

Microsoft Certified: Azure Fundamentals – Jul 2020

Aviatrix Certified Engineer – Multi-Cloud Network Associate – Jun 2020

Building Scalable Java Microservices with Spring Boot & Spring Cloud (Coursera) – Nov 2019 | Credential ID: NQB7U89X9FPS

Introduction to Internet of Things (XEE100), Stanford University – May 2020 | Credential ID: X531415