

KRUSHNA D CHAUDHARI

Pune, Maharashtra, India

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Professional Summary

Senior Backend Engineer with **5+ years** architecting high-availability microservices for global enterprise clients – **Nordstrom (USA)** and **Magna International (Germany)**. Expert in **Java 21**, **Spring Boot 3.x**, and **Kafka-driven event systems** on **AWS/Azure**. Delivered **30% faster development cycles** and **50% fewer production incidents** through CI/CD automation and proactive observability. Leverages **AI tools (Claude Code, GitHub Copilot)** to ship faster without compromising quality.

Experience

SPR Software Systems

June 2025 – Present

Senior Developer

Hyderabad, India (Remote)

- Architected the **Purchase Order microservice** for Nordstrom's enterprise merchandising platform using **Java 21** and **Spring Boot 3.3**, serving millions of retail transactions.
- Engineered an **event-driven architecture** using **Apache Kafka** with **Confluent Schema Registry** and **Apache Avro**, enabling robust real-time event serialization and zero-downtime schema evolution.
- Built fault-tolerant inter-service communication with **Spring WebFlux**, **OpenFeign**, and **Resilience4j** circuit breakers, improving service resilience across distributed systems.
- Optimized data persistence with **PostgreSQL (Aurora)** and **Hibernate**; automated schema migrations via **Flyway** and distributed scheduling via **ShedLock**, reducing manual DBA effort.
- Reduced environment provisioning time by automating cloud-native infrastructure with **Terraform** and containerized deployments to **Kubernetes** using **Kustomize**.
- Achieved **high test coverage** via **Testcontainers** and **Spring Cloud Contract**; enhanced production observability with **New Relic APM** and structured **JSON/Logstash** logging.

Elektron Technologies Pvt. Ltd.

September 2022 – June 2025

Software Engineer

Pune, India

- Architected scalable backend pipelines for a real-time **ADAS video labeling platform** (Magna International) using **Apache Spark**, **Hadoop**, and **Kafka**, processing high-throughput telemetry streams for ML model training.
- Engineered reusable **microservice libraries and backend components**, accelerating time-to-market and cutting development effort by **30%** across multiple client projects.
- Established **CI/CD workflows** with automated testing via **JUnit** and **Mockito**, ensuring high code coverage and seamless zero-downtime deployments.
- Spearheaded **proactive observability** using **ELK Stack** and **Grafana**, identifying production bottlenecks and reducing incidents and downtime by **50%**.
- Drove **code quality standards** across Agile squads via **SonarQube** and **JaCoCo**, collaborating with QA and DevOps teams to maintain stable, high-quality sprint releases.

Zeta IT Innovations

January 2021 – September 2022

Software Developer Associate

Bengaluru, India (Remote)

- Developed and deployed cloud-ready **EV charging microservices** on **AWS** using **Spring Boot**, **Docker**, and **Kubernetes**, ensuring high availability for real-time charging infrastructure.
- Implemented secure, low-latency **bidirectional WebSocket communication** between EV chargers and backend systems via the **OCPP protocol**, supporting real-time charger management at scale.
- Designed and optimized **RESTful APIs** and **MongoDB/PostgreSQL** schemas for transaction processing, user authentication, and charger state management — reducing API response latency.
- Established **GitHub Actions CI/CD pipelines** for containerized production releases, enabling automated, repeatable deployments and reducing manual release effort.

Client Engagements

Inventory & Purchase Order Management | Java 21, Spring Boot, Kafka, GraphQL, AWS

June 2025 – Present

- **Client: Nordstrom, USA** — Enterprise retail merchandising platform
- Designed **domain-driven microservices** for inventory lifecycle, purchase order processing, and delivery tracking across distributed systems.
- Built **Kafka producers and consumers** for real-time order state transitions and inventory synchronization across warehouse systems.

- Implemented **REST and GraphQL APIs** with **JWT-based authentication** and service-to-service authorization via **Spring Security and OAuth2**.
- Monitored and troubleshoot production issues using **Splunk** and **New Relic** for root cause analysis and SLA adherence.

FAS Labeling Application - ADAS Platform | *Java, Spring Boot, Spark, Kafka* **September 2022 – June 2025**

- **Client: Magna International, Frankfurt, Germany**
- Architected a **scalable video labeling backend** using **Spark, Hadoop, Kafka, gRPC**, and **AWS** for continuous ML model training pipelines.
- Engineered **fault-tolerant Kafka/Spark ingestion pipelines** processing massive volumes of video telemetry data with high throughput and low latency.
- Designed and optimized **RESTful APIs** enabling robust communication between distributed system components and frontend labeling tools.

Smart EV Charging Application | *Java, Spring Boot, OCPP, WebSockets* **January 2021 – September 2022**

- **Client: sCharge, India** — Smart EV charging infrastructure platform
- Implemented **WebSockets and multithreading** to support real-time bidirectional charger communication at scale.
- Designed **REST APIs** for charger management, authentication, and transaction processing integrated with **OCPP** and **MongoDB**.
- Containerized backend microservices with **Docker** and established **CI/CD pipelines on AWS** ensuring zero-downtime, highly available deployments.

Technical Skills

Backend Frameworks: Spring Boot 3.x, Spring WebFlux, REST APIs, GraphQL, gRPC, OpenFeign, Resilience4j
Messaging & Streaming: Apache Kafka, Apache Avro, Confluent Schema Registry, RabbitMQ
Cloud & IaC: AWS, Microsoft Azure, Terraform, Kustomize
Databases & Migrations: PostgreSQL (Aurora), MySQL, MongoDB, DynamoDB, Hibernate, Spring Data JPA, Flyway
Containers & Orchestration: Docker, Kubernetes
Big Data: Apache Spark, Hadoop, Spark SQL, Databricks
Monitoring & Observability: New Relic, Splunk, ELK Stack, Grafana, Micrometer
Security: Spring Security, OAuth 2.0, JWT, Azure Active Directory, SSO
AI & Developer Tools: Claude Code, GitHub Copilot, Agentic Workflows, RAG, Prompt Engineering
Testing: JUnit 5, Mockito, Testcontainers, Spring Cloud Contract, AssertJ, TDD
CI/CD & Quality: Git, GitHub Actions, GitLab CI, SonarQube, JaCoCo
Programming Languages: Java 8, Java 21, JavaScript
Build Tools: Maven, Gradle
Tools & Agile: Jira, Confluence, Swagger (OpenAPI), Postman
Operating Systems: Linux, Windows

Certifications

- Confluent Apache Kafka Fundamentals Accreditation** | *Confluent* | [View Credential](#) **May 2026**
- Validates core Apache Kafka concepts, event streaming, and Confluent Platform — Valid through May 2028
- Introduction to Containers, Kubernetes & OpenShift** | *Cognitive Class (IBM)* | [View Credential](#) **May 2026**
- Covers containerization, Kubernetes orchestration, and OpenShift deployment fundamentals
- Docker Essentials: A Developer Introduction** | *Cognitive Class (IBM)* | [View Credential](#) **May 2026**
- Demonstrates hands-on Docker containerization, image management, and CI/CD integration

Education

Rashtrasant Tukadoji Maharaj Nagpur University **2016 – 2021**
Bachelor of Engineering in Computer Engineering | **CGPA: 8.43 / 10** *Nagpur, India*