

NAVNEET KUMAR

Java Backend Engineer | Spring Boot | Microservices | Kafka | Kubernetes | GitOps | Cloud-Native Systems

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PROFILE

Backend Engineer with 4 years of experience building scalable Java Spring Boot microservices and distributed backend systems. Skilled in REST API design, relational database architecture, containerized deployments, Kubernetes and GitOps-based delivery workflows. Experienced in integrating AI-powered features using Retrieval-Augmented Generation (RAG), vector databases and LLM APIs to enhance backend services.

SKILLS

Back-end: Java, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, REST APIs, JWT, Microservices Architecture, Spring AI, Retrieval-Augmented Generation (RAG)

Messaging & Event Streaming: Apache Kafka, RabbitMQ, Spring Cloud Stream, Spring Cloud Functions

Databases: MySQL, Redis, Qdrant (Vector Database)

DevOps: Docker, Kubernetes, Helm, NGINX Ingress, FluxCD (GitOps), GitHub Actions, CI/CD Pipelines, Automated Image Promotion, Google Cloud Platform (GCP)

Observability: Grafana, Loki

Front-end: TypeScript, Next.js, JavaScript, HTML, CSS

Tools: Flyway, Git, GitHub, Postman, IntelliJ IDEA, VS Code

EXPERIENCE

ZMQ Development, New Delhi — Software Engineer (*Full Time*)

July 2022 – April 2026

- Designed and developed stateless Spring Boot microservices following RESTful architecture secured using JWT-based authentication mechanisms behind API Gateway.
- Contributed to designing modular backend workflows across distributed microservices using REST and broker-agnostic event-driven patterns implemented with Spring Cloud Stream and Spring Cloud Functions.
- Built and maintained CI/CD pipelines using GitHub Actions to automate container image builds and promotion, enabling GitOps-based Kubernetes deployments with FluxCD, Helm and NGINX Ingress.
- Implemented centralized logging and observability stack using Grafana and Loki to improve production visibility.
- Designed relational database schemas and optimized SQL queries using indexing strategies.
- Integrated AI-driven backend workflows using RAG architecture with Qdrant vector database and prompt orchestration using LLaMA and OpenAI APIs.
- Implemented DTO-based request/response models with validation and global exception handling, along with MySQL-based conversation tracking, Redis caching prototypes and pagination mechanisms to support scalable API workflows.

ZMQ Development, New Delhi — Software Engineer (*Trainee*)

April 2022 – June 2022

- Assisted in backend feature development using Java, Spring Boot and MySQL, contributing to debugging workflows and version-controlled development using Git.

PROJECTS

TractorFarming.in — *Live Web Application (AdSense Monetization Enabled)* (March 2024 – Present)

Tech Stack: Spring MVC, MySQL, Docker, NGINX, GitHub Actions

- Designed and deployed a production-grade monolithic web application using Docker-based CI/CD pipelines.
- Implemented blue-green deployment strategy using NGINX reverse proxy routing for near-zero-downtime releases.
- Designed structured database schema and optimized backend workflows supporting production traffic.
- Implemented technical SEO optimizations including structured data (JSON-LD), automated sitemap generation and performance tuning aligned with Core Web Vitals to improve search visibility.

Farm AI Assist — AI Powered Backend System (2026 - Present)

GitHub: <https://github.com/navneetbca/farm-ai-assist>

Tech Stack: Spring Boot, Spring AI, OpenAI API, Qdrant

- Built modular backend system demonstrating Retrieval-Augmented Generation (RAG) architecture using vector search.
- Implemented streaming LLM responses and structured JSON outputs supporting extensible AI workflows.
- Designed advisor pipeline for logging, memory handling and request orchestration.

EDUCATION

Mahatma Jyotiba Phule Rohilkhand University, Bareilly

Bachelor of Computer Applications (BCA) — *July 2012 - July 2015*

Languages

- **English** – Professional working proficiency
- **Hindi** – Native