

Ankit Kumar

Java Backend & Full Stack Developer

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GFG: geeksforgeeks.org/profile/ankitkr5609

CodeChef | Codeforces

Professional Summary

MCA student at NIT Jamshedpur with a focus on building backend systems and cloud infrastructure. I have designed and shipped two major projects: an online collaborative coding workspace orchestrated on Kubernetes, and a Spring Boot hotel booking platform with payment integrations and semantic RAG search. I enjoy solving architectural challenges, writing clean APIs, and making sure services run reliably in production. Seeking a Backend or Full Stack Developer role.

Skills

Languages: Java, C++, Python, JavaScript, SQL

Backend & Frameworks: Spring Boot, Spring Cloud (Gateway, Config Server, Eureka), Spring Security, Spring AI, Hibernate/JPA, REST APIs, Node.js

AI & Agentic Systems: Retrieval-Augmented Generation (RAG), pgvector (Vector DB), Tool/Function Calling, Self-Healing Compiler Loops, Prompt Engineering

Databases & Messaging: PostgreSQL, Redis, Apache Kafka, MinIO

DevOps & Cloud: Docker, Kubernetes (GKE), GitHub Actions, Jib, GCP Workload Identity Federation, Nginx, Kind

Frontend: React, Vite, Tailwind CSS

Tools: Git, Postman, Maven, JWT, Stripe API, OpenAPI/Swagger

Projects

Distributed CodeForge | *Java, Spring Boot, Spring Cloud, Kafka, Kubernetes, React, Spring AI*

GitHub | Live Demo

- Architected a cloud-native, agentic collaborative coding workspace with a 6-microservice backend control plane split across network-isolated Kubernetes namespaces to secure runtime execution.
- Reduced sandbox preview spin-up latency by 90% (from 15s to under 1.5s) by orchestrating a pre-warmed Kubernetes runner pod pool with Redis-based route caching and LRU eviction.
- Engineered a self-correcting agentic feedback loop using Spring AI tool calling to read files, run preview builds, and dynamically resolve compiler exceptions using past error-fix memories in pgvector.
- Streamlined deployments using 5 path-filtered GitHub Actions workflows with Jib for daemonless container packaging and keyless GCP Workload Identity Federation.
- Configured Stripe API for subscription billing, automated token usage quotas, and locked down network egress policies to restrict sandbox access to private IP scopes.

StayNest – Hotel Booking Platform (Backend) | *Java, Spring Boot, PostgreSQL, Stripe, Spring AI*

GitHub | Live Demo

- Engineered a hospitality reservation REST API (90+ source files, 25+ tests) with a clean layered architecture and a Decorator-pattern pricing calculator for surge, occupancy, and holiday rules.
- Implemented Stripe checkout with signature-verified webhooks and transactional refund handlers that persist states in PostgreSQL prior to invoking gateway APIs, preventing financial data discrepancies.
- Applied pessimistic database locking on room inventory to eliminate double-booking anomalies, paired with a scheduled job that expires unpaid reservations every 5 minutes.
- Incorporated three Spring AI integrations (dynamic pricing adjustments, semantic property search, and review Q&A chatbot backed by pgvector), securing each with a fallback handler.
- Hardened session security with HttpOnly JWT cookies, BCrypt password hashing, role-based access control, and token versioning to enforce global sign-out upon password resets.

Education

National Institute of Technology (NIT) Jamshedpur

Master of Computer Applications (MCA), CGPA: 7.77/10

Expected May 2027

T.M. Bhagalpur University

Bachelor of Computer Applications (BCA), 72.08%

May 2023

Bhagalpur

Competitive Programming

Solved 1,150+ DSA problems across LeetCode, GeeksforGeeks, Codeforces, and CodeChef combined.

LeetCode (leetcode.com/u/ankit1304): Contest rating 1739 (top 11% globally), 448+ problems solved, 170-day max streak.

GeeksforGeeks (geeksforgeeks.org/profile/ankitkr5609): Coding score 1258, 339 problems solved, Institute Rank 355 at NIT Jamshedpur, 187-day longest streak.

CodeChef (codechef.com/users/ankit5609): Rating 1140 (1★), 146 problems solved.

Codeforces (codeforces.com/profile/ankit1304): Rating 879 (Newbie), 225 problems solved.