

NIKUNJ GARG

Java Backend Developer | BCA Student

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SUMMARY

BCA student specializing in Java backend development with Spring Boot 3, PostgreSQL, and Spring Security. Experienced in architecting secure RESTful APIs, real-time WebSocket communication, relational database schemas, and deploying cloud backends across competitive hackathons and production-style projects.

TECHNICAL SKILLS

- **Languages & Database:** Java 21, SQL, PostgreSQL
- **Backend Frameworks:** Spring Boot 3, Spring Security, Spring Data JPA, Hibernate, RESTful APIs, WebSockets (STOMP)
- **Security & API Standards:** JWT (Access & Refresh Token Rotation), BCrypt, Bean Validation, OpenAPI/Swagger 3.0
- **DevOps & Tools:** Docker, Docker Compose, Git, GitHub, Maven, Postman, Thunder Client, Cloudinary, Railway
- **Core Engineering:** OOP, Data Structures & Algorithms, Relational Schema Design, Clean Architecture, Unit Testing (JUnit 5)

PROJECTS

AgriSathi AI | Java 21, Spring Boot 3, PostgreSQL, Cloudinary, Swagger [\[GitHub Repo\]](#) • [\[Live Demo\]](#)

- Architected a modular Java/Spring Boot backend for an AI-powered agricultural advisory platform during a 30-day hackathon.
- Implemented secure **JWT authentication** with Role-Based Access Control (RBAC) supporting **FARMER** and **BUYER** roles.
- Built REST endpoints for **Farmer Profiles**, **Crop Lifecycle Tracking**, and **AI Disease Diagnosis** (`POST /api/v1/disease/scan`) with Cloudinary media storage and computer vision integration.
- Integrated hyper-local 7-day predictive weather forecasting APIs and documented all endpoints with interactive **OpenAPI/Swagger 3.0**.

DevTinder | Java, Spring Boot, PostgreSQL, WebSockets, Railway [\[GitHub Repo\]](#) • [\[Live Demo\]](#)

- Engineered and deployed the backend for a developer teammate matchmaking platform in 72 hours during Devlynix Buildathon 2.0.
- Designed a PostgreSQL-backed relational API layer for developer profiles, tech stack tags, and mutual connection matching requests.
- Implemented real-time bidirectional group & direct messaging using **WebSockets (STOMP protocol)** with persistent chat history.
- Configured production backend deployment on **Railway** with containerized environment variables and health check monitors.

Library Management System | Java 21, Spring Boot, Spring Data JPA, PostgreSQL, JUnit 5 [\[GitHub Repo\]](#)

- Developed a production-grade layered RESTful architecture (Controller → Service → Repository) with **14+ endpoints** across 4 interconnected tables.
- Implemented stateless JWT authentication featuring database-persisted **Refresh Token Rotation** (`/auth/refresh`) and secure revocation.
- Engineered transactional (`@Transactional`) book checkout and return workflows with automatic 14-day due date tracking and fine calculation.
- Implemented DTO validation, global exception handling (`@ControllerAdvice`), and achieved 100% pass on **28 automated JUnit 5 tests**.

EDUCATION

Bachelor of Computer Applications (BCA) — Shri Guru Ram Rai University, Dehradun 2025 – 2028

ACHIEVEMENTS & CERTIFICATIONS

- **Startup Innovation Recognition** — Innovation & Incubation Centre (IIC), SGRR University & UCOST Dehradun
- **Hackathon Finalist** — Engineered & deployed DevTinder in 72 hours at Devlynix Buildathon 2.0 2026
- **Java Programming Certification** — IIT Bombay Spoken Tutorial Project IIT Bombay