

VISHAL SHARMA

+91-8218837039 | sharma2005vishal@gmail.com | Kanpur, India

[sharmavishal2/Portfolio](#) | [linkedin.com/in/sharma-vishal-1abc](#) | [github.com/sharmaVishal2](#) | [leetcode.com/sharma_vishal_1](#)

PROFESSIONAL SUMMARY

Final-year Computer Science student focusing on backend engineering with Java, Spring Boot, and PostgreSQL. Solved 300+ problems on LeetCode and CodeChef, building a solid base in data structures, concurrency, and clean object-oriented code. Experienced in building REST APIs, managing database transactions with Hibernate, handling rate limits with Redis, and writing automated unit tests using JUnit 5 and Mockito. Looking for an entry-level Java/Backend role to build reliable systems, write clean code, and learn from experienced engineers.

TECHNICAL SKILLS

Languages & Core:	Java (Core & Advanced, Multithreading, OOP), SQL, JavaScript, Data Structures & Algorithms
Backend & Frameworks:	Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Microservices, Apache Kafka, Swagger / OpenAPI
Security & Auth:	JWT (JSON Web Tokens), OAuth 2.0 (Google, GitHub), Role-Based Access Control (RBAC)
Databases & Caching:	PostgreSQL, MySQL, Redis (Caching, Rate Limiting), MongoDB, H2 Database
Testing & DevOps:	JUnit 5, Mockito, Postman, Docker, Git, GitHub, Maven, CI/CD Basics, Vercel, Render
Tools & APIs:	Amazon Q, Groq API, Gemini API, OpenAI API, Prompt Engineering, MCP

TECHNICAL PROJECTS

Distributed Rate Limiter Service *Java, Spring Boot, Redis, PostgreSQL, Docker, JUnit 5*
[\[GitHub\]](#)

- Built a standalone rate limiting service using Java, Spring Boot, and Redis to prevent API abuse across multiple backend instances.
- Implemented Token Bucket, Fixed Window, and Sliding Window algorithms with configurable limits, returning HTTP 429 when limits are exceeded.
- Stored request counts in Redis with atomic operations to prevent race conditions during concurrent traffic.
- Tested edge cases and multithreading behavior using JUnit 5 and Mockito, and documented all endpoints with Swagger/OpenAPI.

E-Commerce Platform *Spring Boot, Spring MVC, React, PostgreSQL, JWT, OAuth 2.0*
[\[GitHub\]](#) [\[Live Demo\]](#)

- Built a full-stack store application with Spring Boot, Spring MVC, React, and PostgreSQL for managing products, cart, and user orders.
- Fixed slow initial page loads caused by Render free-tier cold sleep by caching product data on the frontend and pre-fetching in the background, cutting wait time from ~50s down to under 100ms.
- Implemented login using JWT and Google/GitHub OAuth 2.0, adding role checks so only the authorized admin can add or edit products.
- Tested API routes, payload structures, and error responses with Postman, and added a customer support chatbot using Groq API.

AlgoPush — AI-Powered LeetCode Automation *Java, Spring Boot, React, PostgreSQL, Docker, Groq API*
[\[GitHub\]](#) [\[Live Demo\]](#)

- Created a Chrome extension backed by Spring Boot that automatically commits solved LeetCode solutions directly to GitHub repositories.
- Set up GitHub OAuth 2.0 and JWT auth so users can pick target repositories and organize submissions by difficulty and topic.
- Used Groq API to auto-generate solution breakdowns, time/space complexity notes, and clean Markdown README files for each submission.
- Added SHA-256 code hashing to detect previously submitted solutions and stop duplicate commits from cluttering the repo.

ACHIEVEMENTS & CERTIFICATIONS

- **Software Engineering Virtual Experience – JPMorgan Chase & Co.** (Forge, 2026): Built a Spring Boot service using Kafka for transaction events, with data stored in H2 using Spring Data JPA.
- **Competitive Programming:** Solved 300+ problems on LeetCode and CodeChef (Global Rank 48 in PLACEPREP03; Global Rank 824 in Starter Contest 237).
- **Smart India Hackathon (SIH):** Led a 6-member team; ranked in the Top 50 teams nationwide.
- **National Entrepreneurship Challenge (NEC):** Secured AIR 102 out of 4,000+ colleges at IIT Bombay.
- **Generative AI Essentials & Cybersecurity Awareness** (TCS iON, 2026): Certified in LLM integration, secure API practices, and basic vulnerability management.

EDUCATION

Dr. Ambedkar Institute of Technology for Divyangjan, Kanpur (AKTU Lucknow) *2023 – 2027 (Expected)*
Bachelor of Technology in Computer Science and Engineering *CGPA: 7.04/10*

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), System Design, DBMS, Operating Systems, Computer Networks

Kanha Makhn Public School (CBSE), Mathura *2019 – 2021*
Senior Secondary (Class XII): 74.2% *Secondary (Class X): 80.4%*