

NITISH KUMAR

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OBJECTIVE

Backend-focused Computer Science student who enjoys turning complex problems into scalable, reliable systems. I specialize in building microservices and event-driven architectures using Java and Spring Boot. Looking for a software engineering role to build impactful products alongside a collaborative technical team.

EDUCATION

Bachelor of Technology in Computer Science & Engineering 2023 - 2027
Indore Institute of Science and Technology, Indore CGPA: 7.9/10

Higher Secondary Education (XII) Patna, Bihar
College of Commerce, Arts and Science, Patna Percentage: 76%

SKILLS

Programming Languages	Java (Advanced), Python, C/C++, SQL, JavaScript
Frameworks & Tools	Spring Boot, Apache Kafka, Docker, Redis, Git, REST APIs
Web & Database	React Native, HTML5, CSS3, MySQL, MongoDB, PostgreSQL
Core CS Concepts	Data Structures & Algorithms, DBMS, OOPs, Computer Networks
Certifications	GeeksforGeeks Java, Cisco NDG Linux, CCNA, Oracle Generative AI

PROJECTS

Microservices-Based Expense Tracker 2025
Spring Boot, React Native, Kafka, Docker

- Engineered a containerized **microservices architecture** using **Spring Boot** and **Docker** to manage financial workflows, integrating **Apache Kafka** for high-throughput, event-driven messaging and decoupled system components.
- Developed a full-stack ecosystem with a responsive **React Native** interface for real-time data visualization, seamlessly connected to a robust API layer for automated expense categorization and tracking.

Dynamic Feature Flag & Remote Config Service 2026
Java, Spring Boot, Redis

- Designed a centralized configuration service allowing seamless toggling of application features and dynamic property updates without requiring system restarts or redeployments.
- Implemented a high-performance caching layer using **Redis** to guarantee sub-millisecond retrieval of feature states across distributed microservice nodes.

Distributed API Rate Limiter 2026
Java, Spring Boot, Redis, Token Bucket Algorithm

- Architected a robust rate-limiting middleware utilizing the **Token Bucket algorithm** to throttle incoming traffic and protect backend APIs from overload and abuse.
- Leveraged **Redis** for distributed state management, ensuring synchronized request tracking and minimal latency overhead across multiple application instances.

ACTIVITIES & ACHIEVEMENTS

- Smart India Hackathon (SIH):** Shortlisted for internal college rounds; designed the system workflow and backend integration for a data management prototype.
- Competitive Programming:** Active solver on **Codeforces** and LeetCode, focusing on greedy algorithms and data structure optimization.