

# Rani Sharma

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## Objective

Backend-focused B.Tech student at NIT Jamshedpur with strong fundamentals in data structures, operating systems, networking, and distributed systems. Experienced in building secure, scalable backend services, REST APIs, and production-deployed systems using Node.js, Express, and cloud tooling. Seeking a Backend / Software Engineering Internship to work on real-world systems with scale, reliability, and performance constraints.

## Education

**B.Tech**, Production and Industrial Engineering  
2023 – 2027

**NIT Jamshedpur**  
CGPA: 8.08

## Technical Skills

**Languages:** C++, Python, JavaScript

**Backend & Systems:** Node.js, Express, REST APIs, Authentication (JWT), Microservices, Async Programming, Socket Programming

**Databases:** MongoDB, Indexing, Query Optimization

**Cloud & DevOps:** Docker, CI/CD (GitHub Actions), Linux, Git/GitHub, Postman, Render

**Core CS:** Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

## Projects

### SPIE & PRODYOG – Official Society and annual Branch fest of PIE

(live)

*Full-Stack Web Platform / Next.js, Prisma, PostgreSQL, REST APIs*

- Designed and implemented backend APIs for event registration, team management, and leaderboard operations.
- Modeled relational database schema with proper constraints to prevent duplicate registrations and ensure data integrity.
- Implemented Google OAuth authentication with JWT-based session handling and role-based admin access.
- Built admin analytics dashboard with event-wise registration tracking and CSV export functionality for production use.

### Accessibility Analyzer (ongoing)

backend

*Backend-Heavy System / Node.js, Express, Lighthouse API*

- Developed asynchronous backend services for large-scale webpage accessibility audits.
- Integrated third-party APIs and designed fault-tolerant report generation pipelines.
- Focused on reliability, structured responses, and backend performance under load.

### INKNEST – Printing Services Platform

(Code)

*Backend System / Node.js, Express, MongoDB, Cloudinary, SendGrid*

- Engineered modular backend APIs for authentication, order processing, and file uploads.
- Implemented JWT-based auth, request validation, rate limiting, and secure media handling.
- Optimized database access patterns and improved API latency through indexing and query tuning.

## Achievements

- Solved **500+ DSA problems** across LeetCode, GFG, and HackerRank. (Codolio Profile)
- **4★ rating** in C++ and Problem Solving on HackerRank.
- Secured **4th rank** among 150+ participants in an AlgoUniversity Dynamic Programming Contest.

## Positions of Responsibility

- **Class Representative**, NIT Jamshedpur – Managed communication and academic coordination for 60+ students.
- **Coordinator**, OJASS Techno-Management Fest – Led logistics and execution for 3 technical events with 400+ participants.
- **Joint Core(Web Team)**, SPIE – Official branch Society of Production and Industrial Engineering, NIT Jamshedpur
- **Representative**, CIIC – Supported campus initiatives in innovation, entrepreneurship, and project development.