

RISHAV RAJ

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MCA Student at NIT Jamshedpur — Full-Stack Developer — Competitive Programming Enthusiast

Education

National Institute of Technology (NIT) Jamshedpur

Master's Degree in Computer Applications

Jamshedpur, Jharkhand

2023 – 2026

- Current CGPA: **7.98/10.0**

LN Mishra College

Bachelor's Degree in Computer Applications

Muzaffarpur, Bihar

2019 – 2022

- CGPA: **7.94/10.0**

Technical Skills

Programming Languages: JavaScript, TypeScript, Java, C++, Python

Frontend Technologies: React.js, HTML5, CSS3, Tailwind CSS, Responsive Design

Backend Technologies: Node.js, Express.js, RESTful APIs

Databases: MySQL, MongoDB

DevOps & Tools: Docker, Docker Compose, Git/GitHub, Postman, VS Code

Specializations: Data Structures & Algorithms, Version Control

Projects

Trie AutoComplete - Intelligent Search System [Link](#)

C++, Docker

- Developed **high-performance full-stack autocomplete app** with custom C++ **Trie backend** handling thousands of concurrent insertions, Achieved **sub-100ms response time** through optimized algorithms and efficient memory management for real-time prefix searches, Implemented **RESTful API architecture** with dynamic word insertion and intelligent prefix matching with relevance scoring, Built **persistent file-based storage** that stores words with automated backup. **Docker containerization** reduced setup time.

NoteBook - Full-Stack Blogging Platform [Link](#)

Node.js, React, PostgreSQL, Prisma ORM

- Architected comprehensive **CRUD blogging platform** with sign-up, sign-in features.
- Implemented **secure authentication system** using JWT bearer tokens, password hashing.
- Built **responsive React.js frontend** with component-based architecture, state management, and modern UI/UX principles
- Designed **scalable PostgreSQL schema** with optimized queries, indexing, and relationship management for enhanced performance.

MRP - Placement Record System [Link](#)

Next.js, Team Collaboration

- Collaborated in 5-member team** to enhance placement management system serving **500+ students** at NIT Jamshedpur
- Implemented **advanced pagination with search/sort functionality** using Next.js and modern React patterns
- Optimized database queries and data fetching strategies, reducing **page load time by 40%** and improving UX
- Maintained code quality standards, conducted thorough reviews, and added responsive UI with accessibility features.

Achievements & Certifications

NIMCET 2023 - All India Rank **358/40,000+** candidates

National Level Achievement

- Exceptional performance leading to admission in prestigious **MCA program at NIT Jamshedpur**

Competitive Programming Excellence

Multiple Platforms

- HackerRank 5-star** in Problem Solving — **LeetCode 500+ problems** with contest rating **1439**
- CodeChef max rating: 1229** — **Codeforces max rating: 894**

Leadership & Social Responsibilities

Sankalp Society - Educational Volunteer

NIT Jamshedpur — 2023 - Present

- Mentored 20+ underprivileged students** in mathematics, science, and computer fundamentals with **85% improvement** rate
- Designed comprehensive educational programs focusing on literacy, numeracy, and digital skills for community development

National Service Scheme (NSS) - Team Lead & Volunteer

NIT Jamshedpur — 2023 - Present

- Led diverse community initiatives reaching **200+ beneficiaries**. Managed **15+ volunteer teams** for large-scale events
- Organized health drives, environmental campaigns, and social awareness programs across multiple village communities