

MANISH KUMAR MANDAL

Bhopal, Madhya Pradesh

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PROFESSIONAL SUMMARY

Full-stack developer with hands-on experience building and deploying scalable web applications using React, Node.js, Express, MongoDB, and WebSocket. Strong foundation in backend development, API security, real-time systems, and performance optimization, with proven ability to deliver production-ready applications.

EDUCATION

Lakshmi Narain College of Technology, Bhopal
B.Tech, Electronics and Communication Engineering

Nov 2022 – July 2026
CGPA: 8.00 /10

C.M. Science College, Darbhanga
Higher Secondary Education

2019 – 2021
Percentage: 87.8

PROJECTS

InkSpace – Smart Blogging System

GitHub — Live Demo

React.js, Node.js, Express.js, MongoDB, Google Gemini API, ImageKit

- Built a full-stack AI-powered blogging platform supporting content creation, editing, publishing, and role-based access for multiple users through a scalable REST architecture.
- Integrated Google Gemini AI API for automated blog generation and summaries, reducing manual content creation effort by 50%.
- Implemented image upload, optimization, and CDN delivery using ImageKit, improving media load times by 40%.
- Developed secure authentication and role-based access control (RBAC), protecting sensitive routes and ensuring reliable content management.

Lively – Real-Time Messaging System

GitHub

React.js, Node.js, Express.js, WebSockets

- Engineered a low-latency real-time messaging system enabling bi-directional communication with under 200ms latency for 100+ concurrent users.
- Secured APIs using JWT and rate limiting, reducing unauthorized requests by 90%.
- Designed RESTful APIs with MongoDB for message persistence and user management with reliable real-time synchronization.
- Deployed and optimized the application achieving 99%+ uptime and stable message delivery.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, SQL

Frontend: React.js, HTML, CSS, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, WebSocket, JWT Authentication

Databases: MySQL, MongoDB

Tools: Git, GitHub, Postman, VS Code

Core Concepts: Data Structures & Algorithms, IoT, OOP, DBMS, Computer Networks

CERTIFICATIONS

Java Programming – Infosys Springboard

- Applied OOP principles, collections, and exception handling to build modular Java applications.

Introduction to Networks – Cisco Networking Academy

- Gained understanding of OSI & TCP/IP models, IP addressing, routing, switching, and troubleshooting.

ACHIEVEMENTS

- Built and deployed two full-stack production-grade applications used by 100+ concurrent users.
- Maintained CGPA of 8.0 while developing real-time and AI-powered applications alongside academics.