

MANISH KUMAR

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[GitHub](#) | [Portfolio](#) | [LinkedIn](#) | [LeetCode](#)

SUMMARY

Backend Developer with experience designing and building scalable backend systems using Java, Spring Boot, REST APIs, MySQL, and Spring Security. Delivered production-ready freelance applications and AI-powered solutions by integrating Large Language Models (LLMs). Passionate about backend architecture, cloud technologies, and writing clean, maintainable code while continuously exploring modern software engineering practices.

WORK EXPERIENCE

WEB DEVELOPER — FREELANCE | [LIVE SITE](#)

January 2026 – Present

- Engineered and deployed a 12-page production web application for M.K.R. College (mkrcollege.com) using Node.js, Express.js, MongoDB, and React.js, serving 300+ monthly visitors.
- Designed and implemented 15+ RESTful API endpoints for notice boards, faculty directories, admit-card downloads, and event modules with structured data validation.
- Optimized database query performance by indexing MongoDB schemas across 3,200+ student records and 500+ media assets, reducing data retrieval latency from 1.2s to under 300ms (75% reduction).

WEB DEVELOPER — FREELANCE | [PORTFOLIO](#)

March 2026 – Present

- Developed and deployed 3 production client web applications within 8 months, including sukuuae.in, increasing organic user traffic from 0 to 150+ monthly visitors within 30 days of launch.
- Optimized application load performance by configuring WebP image compression across 200+ assets and implementing lazy loading, reducing page load latency from 4.2s to 1.8s (57% speedup).
- Managed the end-to-end software development lifecycle (SDLC), from client requirement gathering and wireframing to custom domain setup and production deployment, delivering projects within 2–3 week timelines.

PROJECTS

FutureForge AI — Intelligent SaaS Career Platform | [GITHUB](#) | [LIVE](#)

- Engineered backend services using Spring Boot 3.3 and MySQL to process student profiles and generate personalized learning roadmaps and career domain recommendations via REST APIs.
- Implemented secure authentication and authorization mechanisms utilizing stateless JWT tokens and Google OAuth2 integration.
- Integrated LLM capabilities via Groq API (GPT OSS 20B model) for real-time AI mentoring, and implemented server-side PDF report generation using iText.
- Stack:** Spring Boot 3.3, Java, REST APIs, MySQL, JWT, Google OAuth2, LLMs (Groq API), iText PDF, React 18, Tailwind CSS

IntelliBot Pro — Advanced Java AI Chatbot | [GITHUB](#) | [LIVE](#)

- Engineered an advanced Java-based AI application using Object-Oriented Programming (OOP) architecture and a custom Swing GUI for the CodeAlpha Internship project.
- Implemented natural language processing (NLP) modules to handle intent recognition, programming assistance workflows, and mathematical computations.
- Optimized query processing and response generation to deliver real-time conversational responses with latency under 200ms.
- Stack:** Java, Object-Oriented Programming (OOP), Natural Language Processing (NLP), Java Swing GUI

EDUCATION

Parul University

Bachelor of Computer Applications (BCA)

Vadodara, Gujarat

August 2024 – May 2027

J.R.C. Inter College, Nayagaon, Vaishali

Intermediate (12th Science) — Bihar School Examination Board

Patna, Bihar

March 2021

TECHNICAL SKILLS

Languages: Java, Python, JavaScript (ES6+), SQL, HTML5, CSS3

Backend: Spring Boot, Spring Security, Node.js, Express.js, REST APIs, JWT Authentication, OAuth2

Frontend: React.js, Tailwind CSS

Databases: MySQL, MongoDB, Oracle Database, Firebase, Supabase

Libraries: NumPy, Pandas, Matplotlib, Java Swing

AI & APIs: Groq API, Large Language Models (LLMs), AI Integration

Developer Tools: Git, GitHub, Postman, VS Code, Vercel

CERTIFICATIONS

Introduction to Databases

NPTEL, IIT Kharagpur | [CERTIFICATE](#)

Jan 2025 – Apr 2025

Computer Networks and Internet Protocol

NPTEL, IIT Kharagpur | [CERTIFICATE](#)

May 2026

Modern Databases: Relational, NoSQL & Cloud DBs

Parul University | [CERTIFICATE](#)

Mar 2025