

Rajnath Prasad

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SUMMARY

Computer Science undergraduate with hands-on experience building scalable full-stack web applications using Next.js, React.js, Node.js, TypeScript, PostgreSQL, and MongoDB. Experienced in real-time systems, AI integrations, authentication, and modern backend architectures. Passionate about developing production-ready software and solving real-world engineering problems.

EDUCATION

Lakshmi Narain College of Technology Excellence

B.Tech in Computer Science Engineering

2023 – 2027

DAV Public School, Sawang

Senior Secondary Schooling

2022

DAV Public School, Sawang

Secondary Schooling

2020

PROJECTS

IOTA – AI-Powered Technical Interview Platform | [Live](#) | [GitHub](#) | [Video Demo](#)

- Engineered a full-stack technical interview platform using **Next.js 16**, **TypeScript**, **Socket.IO**, **WebRTC**, **PostgreSQL**, and **Prisma ORM**, enabling low-latency collaborative coding and live video interviews.
- Integrated **Google Gemini AI** for difficulty-based interview question generation and developed an interview proctoring system with tab-switch detection and activity monitoring.
- Designed relational database models and implemented secure role-based authentication using **NextAuth.js** with Google OAuth, along with real-time chat, screen sharing, and TURN/STUN-powered peer-to-peer communication.

FitVerse – AI Fashion E-Commerce Platform | [Live](#) | [GitHub](#) | [Video Demo](#)

- Built a full-stack AI-powered fashion e-commerce platform using **React.js**, **Node.js**, **Express.js**, and **MongoDB**, featuring an AI virtual try-on system powered by IDM-VTON through Hugging Face inference APIs.
- Implemented secure **JWT** authentication, shopping cart, order tracking, and customer feedback system, and RESTful backend APIs with efficient database management.
- Integrated **Razorpay** payment gateway, **Cloudinary** image storage, and a role-based admin dashboard for managing products and customer orders.

CivicConnect – Government Scheme Discovery Platform | [Live](#) | [GitHub](#) | [Showcase](#)

- Developed a civic-tech web application using **Node.js**, **Express.js**, **MongoDB**, and **EJS** that recommends government schemes based on user profile attributes.
- Integrated the **Google Gemini API** as a contextual chatbot and developed secure authentication with a full CRUD-based admin dashboard.
- Designed a personalized recommendation engine, optimized database operations, and implemented image uploads using **Multer**.

ACHIEVEMENTS & LEADERSHIP

- Built and grew an educational YouTube channel to **10K+ subscribers** by publishing structured programming tutorials on Python, SQL, and Computer Science fundamentals.
- Published 50+ technical videos, strengthening communication, content creation, and technical explanation skills while helping thousands of learners.

Core Member – TEDxLNCT Bhopal

April 2024

- Collaborated with cross-functional teams to manage branding, digital media, and event execution for TEDxLNCT Bhopal

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, TypeScript

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, Socket.IO, WebRTC, NextAuth.js, JWT, OAuth

Databases & ORM: PostgreSQL, MongoDB, MySQL, Prisma ORM

Tools & Platforms: Git, GitHub, Docker, Postman, Vercel, Render

AI & Integrations: Google Gemini API, Hugging Face, Cloudinary, Razorpay

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