

SANDEEP SINGH

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Professional Summary

Results-driven Full Stack Developer with expertise in architecting and deploying scalable web applications using the MERN stack, Next.js, and FastAPI. Specializes in building secure, high-performance REST APIs and integrating AI/LLM technologies to deliver cutting-edge user experiences. Proven ability to optimize backend performance and craft responsive, intuitive user interfaces.

Technical Skills

Languages: JavaScript, TypeScript, Python

Frontend: HTML5, CSS3, React.js, Next.js, Redux Toolkit, React Query, TanStack Query, Tailwind CSS

Backend: Node.js, Express.js, FastAPI, GraphQL, LangChain, Gemini API, REST APIs, JWT Auth, OAuth

Database: MongoDB Atlas, Prisma, PostgreSQL, ChromaDB

Tools: Git, Vite, Clerk, Postman, Docker, Cloudinary, ImageKit

Projects

AI Career Coach – AI-Powered Career Platform

[Live Project](#) | [GitHub](#)

Tech Stack: Next.js, JavaScript, Prisma, PostgreSQL, Clerk, Gemini, Tailwind CSS, ShadCN/UI

- Engineered a full-stack AI platform utilizing Next.js Server Actions and the Gemini API to provide users with instant resume scoring and cover letter generation.
- Architected a secure authentication system using Clerk, safeguarding user data and ensuring protected access to all AI-powered tools.
- Leveraged Prisma ORM and PostgreSQL to track and store user activity logs, enabling personalized insights and future feature development.

ShopWiz – Scalable E-commerce Platform

[Live Project](#) | [GitHub](#)

Tech Stack: MERN Stack, Redux Toolkit, ImageKit, NodeCache, Paytm Gateway, JWT, Tailwind CSS

- Developed a scalable e-commerce platform from the ground up using the MERN stack, incorporating real-time cart updates with Redux Toolkit.
- Designed and implemented a secure admin dashboard with role-based access control, enabling comprehensive product inventory, order, and user management.
- Optimized backend for high-traffic scenarios, achieving a 30% improvement in response time by implementing Node.js clustering, NodeCache, and Express Rate Limiting.
- Integrated the Paytm Payment Gateway for secure transaction processing and implemented persistent login sessions using JWT cookies.

ClassBuddy – AI-Powered Learning Management System

[GitHub](#)

Tech Stack: React.js, Tailwind CSS, Redux, FastAPI, LangChain, LangGraph, Cloudinary, PostgreSQL

- Spearheaded the development of a collaborative AI-powered LMS, enabling teachers to create content groups and manage student access effectively.
- Integrated LangChain and LangGraph to deliver an AI note generation feature with full CRUD support, reducing content creation time for educators.
- Engineered a robust backend using FastAPI, securing endpoints and managing persistent user sessions with JWT cookie-based authentication.

Education

Master of Computer Applications (MCA)

2024 – 2026

Chandigarh University

Punjab, India

Bachelor of Computer Applications (BCA) – Computer Science

2020 – 2023

Kanpur Institute of Technology

Kanpur, UP, India