Amitesh Sahoo

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EDUCATION

Delhi Technological University (formerly DCE) Delhi, India
Computer Engineering | CGPA - 8.53 (upto 6th Semester) *Nov. 2022 – July 2026 (expected)*

Indraprastha Convent Sr. Sec. School New Delhi, India
Senior Secondary Education | CBSE | Percentage: 94.6% *2021-22*
Secondary Education | CBSE | Percentage: 92.17% *2019-20*

PROJECTS

INTELLIDOC | *React.js, Node.js, LangChain, PostgreSQL, Google Gemini, PGVector*
- Developed an **intelligent PDF Q&A system** enabling users to engage in natural language conversations about their content, eliminating manual document searching
- Implemented complete **RAG (Retrieval-Augmented Generation) pipeline** using LangChain and LangGraph with document chunking, vector embeddings, similarity search, and context-aware response generation
- Designed **agentic AI system** using LangGraph that intelligently retrieves document context, maintains conversation history, and provides contextually relevant responses across multi-turn conversations

QUICK CART | *React.js, Node.js, Express, MongoDB, Redis, Stripe*
- Built **full-stack e-commerce platform** supporting product catalog, shopping cart, and secure checkout flow with Stripe payment integration
- Implemented robust authentication system using **JWT with refresh/access tokens and bcrypt hashing**, featuring role-based admin dashboard for product management and analytics with zero security vulnerabilities
- Optimized application performance by implementing **Redis caching for featured products** and utilizing Cloudinary for image storage

MEDIACRAFT AI | *Next.js, Daisy UI, Clerk, Zod, Cloudinary AI*
- Automated **image-to-social template conversion**, processing 100+ images
- Generate **contextual video previews and compressed download-ready formats** automatically
- Implemented Clerk auth and Zod validation

REAL TIME CHESS GAME | *Node.js, Socket.io, Express, EJS, JavaScript*
- Built a real-time chess game backend using Node.js and **WebSockets for live communication** between players.
- Implemented bidirectional WebSockets messaging layer via Socket.io , **eliminating per-move HTTP handshake overhead** and boosting game responsiveness.

EXPERIENCE

Full Stack Developer Intern June 2025 - July 2025
VOGUEISH (Apparel DTU-IIF Startup) *New Delhi, India*
- Led MERN-stack e-commerce development team
- Built APIs for user accounts, product listings, shopping cart, and order processing

ACHIEVEMENTS

- LeetCode Knight Badge (1850+ rating), Top 600 global in Biweekly Contest
- CodeChef(3 Star Coder, 1600+ rating), Codeforces(Pupil, 1300+ rating)
- 8230 RANK in JEE ADVANCED 2022
- 99.6 percentile / 3738 RANK in JEE MAINS 2022
- Solved over 500+ complex DSA problems across Leetcode, Codeforces and CodeChef

TECHNICAL SKILLS

Programming Languages: C, C++, Javascript, Typescript
Frameworks and Libraries: Next.js, React.js, Node.js, Express.js, Socket.io, Langchain, Recoil, Tailwind CSS
Databases: Prisma ORM, MySQL, PostgreSQL, MongoDB, PGVector
Tools and Platform : Git, Docker, VS Code, WebStorm, Postman, Vercel, Render
Relevant Coursework: OS, DBMS, Computer Networks, Probability and Statistics, ML, Multi-Modal Data Preprocessing, Ethical Hacking, Object Oriented Software Engineering