

AMIT KUMAR

FULL STACK DEVELOPER | AI & GENAI ENTHUSIAST

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[GitHub](#) [LinkedIn](#) [LeetCode](#) [GeeksforGeeks](#) [Twitter/X](#)

PROFESSIONAL SUMMARY

Built and deployed **MERN stack applications**, developed **RESTful APIs**, and integrated AI & automation tools (**LLMs, LangChain, RAG, Cursor AI, n8n, WebSocket, WebRTC, AI Agents**). Improved web performance by up to 30% and led 3-4 member teams to deliver projects ahead of schedule. Currently learning **Python backend development** with **FastAPI** to build high-performance APIs.

EDUCATION

September 2023 - June 2026

Bachelor of Computer Applications (BCA)

Kashi Institute of Technology

- Ranked in top 20% in coding competitions and workshops.
- Mentored 5+ peers on MERN stack projects, improving team delivery and code quality.

TECHNICAL SKILLS

Frontend: HTML, CSS, JavaScript, React.js

Database: MongoDB, Redis, Vector DB, PostgreSQL

Version Control: Git, GitHub

Backend: Node.js, Express.js

Programming: C, C++, Python

AI & Automation: LLMs, LangChain, RAG, Cursor AI, AI Agents, n8n, WebSocket, WebRTC, REST API

PROJECTS

- OceanIQ (SIH 2025 Winner - Ministry of Earth Sciences):** Architected an AI-powered ocean data analysis platform processing **30GB+ of complex NetCDF data**. Engineered a **RAG pipeline** using **Google Gemini 2.5** and **FAISS** to enable natural language querying of Argo Float datasets. Developed robust **Python (FastAPI)** ETL pipelines and integrated them with the frontend for real-time trajectory mapping, simplifying oceanographic research for scientists.
- SmartCoders - AI-Powered Coding Platform:** Built a full-stack LeetCode-style platform using **MERN Stack, Redux, and Redis**. Integrated **Google Gemini AI** to provide real-time code explanations and hints. Features include **daily automated problems (POTD)** via Cron jobs, secure code execution (**via Judge0**), video solution streaming (Cloundinary), and **Razorpay** payment integration.
- SiteForge: AI-Powered Website Builder** Led development of full-featured app with React.js, Redux, Tailwind CSS, Node.js, Express.js, and Socket.IO. Integrated LangChain-based AI content, real-time collaboration via WebRTC, automated workflows with n8n, and Razorpay payments. Deployed securely on AWS. Mentored junior developers and coordinated project tasks among 4 team members.
- AI Agents & Automation:** Developed intelligent AI agents using LangChain and RAG pipelines to automate repetitive tasks, cutting manual work by 40%. Presented results to peers, explaining workflow architecture clearly and effectively.
- Swiggy Clone:** Built React.js food delivery app with dynamic listings. Processed 100+ test orders and improved page load speed by 30% through optimized state management. Communicated with team members to define user-friendly features and UI workflow.

ACHIEVEMENTS & CERTIFICATIONS

- Solved 300+ **DSA problems** on **LeetCode** and **GeeksforGeeks**, maintaining 200+ day streak, ranking in top 15% globally.
- 1st place at **Techkriti Memory Based CC (KIT Varanasi)** among 50+ participants.
- Winner of Smart India Hackathon (SIH) 2025.** Led a 6-member team to victory in the Grand Finale, managing task delegation, coordinating team communication, and presenting innovative solutions to judges under tight deadlines.
- Completed Full Stack Development course from **Coder Army Nexus**, gaining hands-on MERN stack experience.