

Rohit Kumar

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EDUCATION

• ITER,Siksha 'O' Anusandhan	2021-25
Bachelor of Technology in Computer Science and Engineering	CGPA: 7.72
• Jamshedpur Public School	2021
Board of Secondary Education, State	Percentage: 73

TECHNICAL SKILLS AND INTERESTS

Languages: JavaScript, Python, Java, TypeScript
Libraries: Java Collections, React.js, LangChain
Web Development Tools: Node.js, Git, GitHub
Tools & Technologies: Docker, Kubernetes, Linux
Frameworks: Express.js, Next.js, FastAPI
Cloud / Databases: ChromaDB, MongoDB, PostgreSQL
Areas of Interest: Full Stack Development, Generative AI, Large Language Models (LLMs)
Soft Skills: Inventive, Self-Learner, Consistent

Experience


Software Developer Engineer-1	Nov 2025 - Present
UST	Trivandrum

- Designed and execute a RAG architecture using Chroma DB and Azure OpenAI, achieving a 15% reduction in latency.
- Implemented a document indexing and retrieval pipeline, streamlining chunking, embedding persistence, and similarity search to minimize latency and recomputation, boosting search accuracy by 7%.
- Enhanced the RAG system's stability by diagnosing and rectifying the two largest causes of delayed response times during web search enrichment integration via Tavily.
- Impose MongoDB-based user history storage for scalable, concurrent persistence of queries, summaries, and sources across multiple users and instances.
- Improved system robustness by addressing performance bottlenecks, reducing synchronous I/O, planning async/background tasks, and enforcing validation with Pydantic models.

GLOBAL CERTIFICATION

- Certified as a ServiceNow System Administrator. Certification id: 25518829
- Certified as a ServiceNow Application Developer. Certification id:25554188

PROJECTS

• Certificates Decentralized Application	React, Solidity, Thirdweb, Tailwind Css	 Source Code
* Designed and deployed a smart contract to issue verifiable certificates; reduced tampering risk via on-chain verification; top-5 at CodeUtsav 7.0		
* Architected and deployed a blockchain-based certificate system, minimizing fraudulent certificate attempts by 20% through on-chain verification mechanisms, improving data integrity for institutions.		
• FutureForge – Career Guidance Platform	Next.js, clerk, Postgres, Gemini Api, Shadcn ui	Deployed link
* Developed AI-powered modules for resume generation, mock interview feedback, and trend insights using real-time industry data; stored user data in PostgreSQL.		
* Delivered Next.js server components and app router, boosting rendering speed by 20% and improving application scalability by 30% to handle increased user traffic		
* Built features like mock interview feedback, industry trend analysis, and ATS-optimized resume creation.		

ACHIEVEMENTS & PARTICIPATION

- * Ranked Top 5 for Best Projects at CodeUstav7.0(Nit Raipur)
- * Paraticipated in Hackathons programs like HackerWar3.0 , HackerWar4.0, CodeUstav7.0(Nit Raipur) ,Advita hackfest(IIIT bbsr).
- * Solved over 300+ coding questions and completed numerous coding tests on various platforms.