

# Rohit Kumar

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## EDUCATION

### •ITER,Siksha 'O' Anusandhan

*Bachelor of Technology in Computer Science and Engineering*

2021-25

CGPA: 7.72

### •Jamshedpur Public School

*Board of Secondary Education, State*

2021

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

UST

Nov 2025 - Present

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)
- \* Participated in Hackathons programs like HackerWar3.0 , HackerWar4.0, CodeUstav7.0(Nit Raipur) ,Advita hackfest(IIT bbsr).
- \* Solved over 300+ coding questions and completed numerous coding tests on various platforms.