Sameer Kumar Sahu

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Summary

Full-stack & AI engineer skilled in **MERN**, **LLMs**, **LangChain**, **LangGraph**, Docker, and cloud-native development. Currently interning at **National Informatics Centre (NIC)** building production-ready dashboards, GenAI pipelines, and scalable API systems. Strong foundation in Operating Systems, DBMS, Computer Networks, and microservices.

Education

Trident Academy Of Technology   **GPA: 8.36 , Exp Grad: May 2026**
Bachelor of Computer Science and Engineering — Minor AI & ML   *Infocity,BBSR*

Technical Skills

Programming Languages: Python, JavaScript, C, C++
Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js
Databases: MongoDB, Redis
Cloud and DevOps: AWS (S3, ECS, ECR), Docker, Git, GitHub
AI and GenAI: LLMs, LangChain, LangGraph, RAG, Prompt Engineering, MCP
Developer Tools: Postman,N8n

Work Experience

National Informatics Centre   **Jun 2025 – Present**
Software Engineering Intern   *(on-site)-Housingboard,BBSR*

- Integrated **10+ REST APIs** and built **12+ Chart.js visualizations**, reducing manual reporting time by **35%** and improving decision-making speed by **40%**
- Optimized data pipelines to cut dashboard load times by **28%**, enhancing usability for **500+ daily users**.
- (on-going)Developing **GenAI** solutions with **LangChain, MCP, and LLMs**, processing 5,000+ queries monthly and improving retrieval accuracy by **30%**.
- Applied **RAG**, prompt engineering, and fine-tuning on custom datasets, reducing redundant responses by **25%** and latency by **20%**.

Projects

VercelLite | *Source code*   **NodeJS | ReactJs | AWS(S3)**

- Built a **Vercel**-like platform for automated React app hosting, enabling 100+ deployments directly from GitHub repos and reducing setup time by **60%**.
- Implemented a **microservices** architecture with **Node.js, Docker, AWS (ECR, ECS, S3), Redis, and Socket.io** for real-time logging and scalable containerized deployments.

Test.ai | *Source code*   **NextJS | Gemini API | MongoDB | Tailwind CSS | Redux**

- Built an **AI-powered platform** for personalized knowledge testing, gamified learning, and real-time performance insights.
- Implemented secure user **authentication, progress tracking**, gamification, and adaptive learning formats.

Leadership

Hackathon & Club   **Feb 2023 – Present**

- Participated in **ThinkQbator Cohort 7 by Cisco & NASSCOM Foundation**, leading a team project from ideation to prototype stage, focusing on innovative, technology-driven problem-solving under industry mentorship.
- Hackathon – Trithon 2024: Secured 5th position for a project on Sustainable Development, competing among 50+ teams.
- Club Memberships:AIoT(c) Club, Hackathon Club, GIS Club, and Cloud Computing Club, contributing to collaborative projects and peer learning initiatives.