

# Satyajit Sahoo

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## SUMMARY

Computer Science undergraduate with hands-on experience in Full-Stack Development, Generative AI, and RAG-based systems. Built and deployed scalable AI-driven and real-time applications using MERN stack, FastAPI, Docker, CI/CD, and cloud platforms. Strong problem-solving skills with 500+ DSA problems solved. Open to internship and full-time software engineering roles.

## EDUCATION

### Utkal University, Radhanath Rath Vigyan Degree Mahavidyalaya

Odisha, India

Bachelor of Science in Computer Science (Minor in Physics)

Aug 2023 – Mar 2026

– CGPA: 8.7

Current Status: 3rd Year

## PROJECTS

### Oceanum Library – AI-Powered RAG & Agentic AI System

- Built an AI-powered document intelligence platform enabling PDF uploads and contextual Q&A using Retrieval-Augmented Generation (RAG).
- Designed modular agentic architecture with memory-enabled agents orchestrated via LangGraph.
- Implemented multi-step reasoning pipelines including chunking, embeddings, semantic search, and LLM inference across 5+ workflows. (Live Demo)

### Stock Mates – Stock Trading & Investor Networking Platform

- Built a real-time stock trading simulation platform handling 100+ simulated trades per day with live price updates.
- Developed investor networking features enabling discussions across 5+ market-focused groups.
- Implemented backend trade lifecycle management using 10+ REST APIs for order validation and transaction history. (Live Demo)

### Meena GPT – AI Chat Application

- Refactored full-stack architecture, reducing code complexity by ~25% across 10+ modules.
- Developed RESTful APIs with MongoDB-backed chat history for scalable data persistence.
- Optimized deployment on Render, reducing deployment time from 10 minutes to under 2 minutes. (Live Demo)

### Confer-X – Real-Time Video Conferencing Platform

- Engineered a real-time video conferencing platform supporting 20–50 concurrent users using WebRTC and Socket.io.
- Integrated Generative AI pipelines to generate meeting summaries, action items, and sentiment insights with under 5s latency.
- Implemented scalable backend architecture supporting multiple low-latency concurrent rooms. (Live Demo)

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript

**Frontend:** React.js, HTML, CSS, Tailwind CSS, Material UI, Bootstrap

**Backend:** Node.js, Express.js, FastAPI, REST APIs

**Databases:** MongoDB, MySQL, Vector Databases (Qdrant)

**DevOps & Cloud:** Docker, Kubernetes, CI/CD, GitHub Actions, AWS, Render, Vercel

**AI & GenAI:** LLMs (OpenAI, Gemini), RAG Systems, Agentic AI, LangGraph, Prompt Engineering

**Core CS:** Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks

## ACHIEVEMENTS

- Achieved global rank 1421 among 20,000+ participants in a LeetCode weekly contest.
- Solved 500+ DSA problems across LeetCode and GeeksforGeeks.
- Cleared multiple HackerRank skill certifications.
- Certified in Full Stack Development, DSA, and Generative & Agentic AI.

## CODING PROFILES

- LeetCode: leetcode.com/u/SATYAJIT-SAHOO
- GeeksforGeeks: geeksforgeeks.org/user/satyajitsaf4tx