

# Satyajit Sahoo

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## SUMMARY

Computer Science undergraduate and Full-Stack Developer with hands-on experience building scalable web applications and AI-powered systems. Proficient in MERN stack, FastAPI, RESTful APIs, and RAG-based Generative AI solutions using agentic architectures. Strong problem-solving skills with 500+ DSA problems solved across competitive platforms. Actively seeking internship and entry-level software engineering roles in product-based and high-growth teams.

## 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

- Architected an AI-powered document intelligence platform enabling PDF ingestion and contextual question answering using RAG.
- Designed modular agentic workflows with memory-enabled agents orchestrated via LangGraph.
- Built multi-step reasoning pipelines including document chunking, vector embeddings, semantic retrieval, and LLM inference across 5+ workflows.
- **Tech Stack:** React.js, FastAPI, Python, LangChain, LangGraph, Qdrant, Gemini AI, Docker [\(Live Demo\)](#)

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

- Developed a real-time stock trading simulation platform handling 100+ simulated trades per day with live market updates.
- Built investor networking features enabling topic-based discussions across 5+ market-focused communities.
- Implemented secure JWT-based authentication and backend trade lifecycle management using 10+ REST APIs.
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, JWT, Socket.io [\(Live Demo\)](#)

### Meena GPT – AI Chat Application

- Refactored full-stack architecture, reducing code complexity by ~25% across 10+ modules.
- Designed RESTful APIs with MongoDB-backed chat history to support scalable and persistent conversations.
- Optimized cloud deployment on Render, reducing deployment time from 10 minutes to under 2 minutes.
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Gemini AI, Render [\(Live Demo\)](#)

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

- Engineered a low-latency video conferencing platform supporting 20–50 concurrent users using WebRTC and Socket.io.
- Integrated Generative AI pipelines for automated meeting summaries, action items, and sentiment analysis with sub-5s latency.
- Designed scalable backend architecture supporting multiple concurrent rooms with minimal performance degradation.
- **Tech Stack:** React.js, Node.js, WebRTC, Socket.io, MongoDB, Gemini AI [\(Live Demo\)](#)

## 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:** Gemini LLMs, 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 and Generative & Agentic AI.