

# SATYAJIT SAHOO

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Portfolio: <https://my-portfolio-steel-ten-91.vercel.app/>

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## ❖ SUMMARY

Computer Science student specializing in Full-Stack and Backend Development with hands-on experience in Generative AI and RAG-based systems. Built scalable, AI-driven and real-time applications using the MERN stack, FastAPI, Docker, CI/CD pipelines, and cloud platforms. Strong foundation in Data Structures & Algorithms, Object-Oriented Programming (OOP), REST API design . Seeking Software Engineering Internship opportunities.

## ❖ EDUCATION

**Utkal University , Radhanath Rath Vigyan Degree Mahavidyalaya**

Bachelor of Science in **Computer Science**, Minor in Physics (Current Status : 3rd Year)

CGPA: **8.7** (Second Year)

**Aug 2023 – Mar 2026**

## ❖ PROJECTS

### ❖ Oceanum Library – AI Document Intelligence Platform

**Tech:** React.js, FastAPI, Python, LangChain, Qdrant, Gemini API

1. Designed and deployed a scalable Retrieval-Augmented Generation (RAG) pipeline processing 1,000+ documents using semantic embeddings, optimized chunking, and vector similarity search.
2. Reduced retrieval latency by 40% through vector index tuning and similarity search optimization in **Qdrant**, handling 200+ queries/day.
3. Orchestrated multi-agent workflows with contextual memory using LangGraph and asynchronous FastAPI services, supporting 100+ concurrent user sessions.

🔗 <https://the-oceanum-library.vercel.app/>

### ❖ Confer-X - Gen AI-powered Video Conferencing Platform

**Tech:** React.js, Node.js, Express.js, MongoDB, Web Sockets, REST APIs

1. Engineered a real-time video conferencing platform handling **20–50 concurrent users** with AI-driven transcription and summarization.
2. Integrated **Generative AI pipelines** to produce meeting notes, action items, and sentiment insights with **<5s latency**.
3. Implemented a **scalable WebRTC + Socket.io backend** supporting **multiple concurrent rooms** with low-latency signaling.

🔗 <https://video-conferencing-platform-nine.vercel.app/>

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

**Tech:** React.js, Node.js, Express.js, MongoDB, JWT, OAuth 2.0, REST APIs

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

🔗 <https://stock-trading-platform-ochre.vercel.app/>

### ❖ Meena GPT – AI Chat Application

**Tech:** React.js, Node.js, Express.js, MongoDB, Groq

1. Refactored the full-stack architecture, reducing code complexity by **~25%** across **10+ modules**.
2. Executed **8+ RESTful APIs** with MongoDB-backed chat history for scalable data management.
3. Deployed on **Render**, cutting deployment time from **10 minutes to under 2 minutes**.

🔗 <https://meena-gpt.vercel.app/>

## ❖ 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 DBs (Qdrant)
- **DevOps & Cloud:** Docker, Kubernetes, CI/CD ,GitHub Actions , AWS , Render , Vercel
- **AI & Gen AI:** LLMs (OpenAI, Gemini), RAG Systems , Agentic AI , LangGraph , Prompt Engineering
- **Core CS :** DSA , OOPS , OS , DBMS , Computer Networks

## ❖ ACHIEVEMENTS

- Secured **Global Rank 1421 / 20,000+ participants (Top 7%)** in a LeetCode Weekly Contest, demonstrating advanced problem-solving and algorithmic skills.
- Solved around **600+ Data Structures & Algorithms (DSA) problems** across LeetCode (500+) and GeeksforGeeks (100+), covering Dynamic Programming, Graphs, Trees, Recursion, and Greedy algorithms.
- Earned multiple **HackerRank certifications** in Java, and Python, validating proficiency in Object-Oriented Programming (OOP) and core programming fundamentals.
- Completed professional certifications in **Full Stack Development, Data Structures & Algorithms, and Generative & Agentic AI**, with hands-on project implementation.

## ❖ CODING PROFILES

- LeetCode: 500+ problems solved — <https://leetcode.com/u/SATYAJIT-SAHOO/>
- GeeksforGeeks: 100+ problems solved — <https://www.geeksforgeeks.org/profile/satyajitsahoo28252>