

Debashis Pani

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Education

B.Tech in Information Technology, Kalinga Institute Of Industrial Technology
CGPA: 8.22 (Up to 6th Semester), Graduation Year: 2026

Experience

SDE Intern, NTRO (National Technical Research Organisation) *May 14, 2025 – Aug 20, 2025*
- Contributed to a large-scale production application using **React, FastAPI, Laravel, PostgreSQL, and Docker**.
- Automated CI/CD deployment pipelines using **Docker** and **Python** on **Linux-based servers**, reducing manual deployment effort by **50%**.
- Designed and maintained containerized environments to improve service isolation, reliability, and long-term maintainability.

SDE Intern, Remodel Ai *Feb 2025 – Apr 2025*
- Built a real-time voice calling application using WebSockets, OpenAI's voice API, and Twilio, reducing latency by 35%.
- Integrated backend systems supporting high-concurrency workloads, improving system reliability by 20–30%.

Smart India Hackathon 2025 – Winner (Tech Lead)
- Led a team to build a **Multimodal RAG system** with **offline LLM inference** using **Ollama**, supporting PDF, DOCX, PPT, and audio inputs.
- Implemented **semantic search** using embeddings and real-time streaming responses via **FastAPI + Next.js**.

Projects

Patient Management System (Microservices)

Built a microservices-based system using **Spring Boot, gRPC, Kafka, Docker, and PostgreSQL** for patient records, billing, and analytics.

Code: github.com/pani2004/Patient-Management-System

SKYPACS - Picture Archiving and Communication System (PACS)

Developed a PACS server using the **MERN stack** to manage DICOM images. Deployed on a self-hosted Linux server using **Docker, Nginx, and GitHub Actions** for CI/CD.

Demo: skypacs.in

OneBox Email Aggregator (AI + Real-time Sync)

AI-powered email aggregation platform built with **TypeScript, Node.js, React, PostgreSQL, and Docker**.

- Integrated **Elasticsearch** for full-text search and **ChromaDB (Vector DB)** for semantic retrieval.
- Implemented AI workflows using **Gemini API** for email classification and RAG-based reply suggestions.

Code: github.com/pani2004/OneBox

Real Estate - A MERN Real Estate Application

Built using the MERN stack

Code: github.com/pani2004/Mern-Estate

Demo: mern-estate-932i.onrender.com

Portfolio Using React & Tailwind CSS

Personal portfolio website showcasing projects and skills.

Demo: portfolio-beta-liart-56.vercel.app

Code: github.com/pani2004/Portfolio

Technical Skills

Languages: C++, Java, C, JavaScript

Frameworks: Next.js, React, Tailwind CSS, Express.js, FastAPI, Spring Boot

Databases: PostgreSQL, MySQL, MongoDB

Tools: Linux, Docker, Git, GitHub, Kafka, Redis, Prisma, AWS EC2