

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 – Aug 20, 2025

- Worked on a government-backed, high-security application involving full-stack development using **React, FastAPI, Laravel, PostgreSQL, and Docker**.
- Automated CI/CD deployment pipelines using Docker and Python, reducing manual deployment effort by **50%**.
- Implemented containerized environments for modular, isolated, and maintainable services.

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 2024 - Grand Finalist (Tech Lead)

- Led a team of 6 to build **Market Scout**, a MERN-based price comparison engine reducing search time by **40%** using Playwright + Redis.
- Delivered an MVP with **98%** functionality coverage on time.

Projects

Patient Management System (Microservices)

Built using **Spring Boot, gRPC, Docker, and PostgreSQL**. Implemented microservices with Kafka-based communication and secure data exchange:

- **Patient Service** – manages patient records and medical details.
- **Billing Service** – handles billing, invoices, and payments.
- **Analytics Service** – provides insights and reports using patient and billing data.

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 home server using **Docker, Nginx, and GitHub Actions** for CI/CD.

Demo: skypacs.in

OneBox Email Aggregator (AI + Real-time Sync)

An AI-powered email management platform built with **TypeScript, Express.js, React, Prisma, Postgres and Docker**.

- Real-time IMAP sync with persistent connections.
- Integrated **Elasticsearch** for full-text email search and filtering.

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, HTML, CSS, JavaScript

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

Databases : PostgreSQL, MySQL, MongoDB,

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