

RUDRA SANKHA SINHAMAHPATRA

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Education

Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science and Engineering

CGPA : 8.39

Bhubaneswar, India

Sep 2022 - July 2026

Technical Skills

Languages: C, JavaScript, TypeScript

Web Technologies: React.js, Next.js, HTML5, CSS3, Node.js, Express.js, Prisma, TurboRepo

DevOps: Docker, AWS, CI/CD

Database: MongoDB, PostgreSQL, Redis

Tools: Postman, Git, GitHub

Experience

Full Stack Developer Intern

FirstList Technology Solutions Pvt. Ltd.

Dec 2024 – Mar 2025

Remote

- * Engineered a scalable backend using **Node.js**, **Express.js**, and **MongoDB**, integrating **PhonePe** payment status updates and implementing PDF uploads to **Amazon S3**, improving transaction efficiency by **20%**.
- * Deployed backend services on **Amazon EC2** with **Nginx**, optimizing system performance and ensuring **99.9%** uptime for over **1,000 monthly active users**.
- * Enhanced frontend features using **React.js**, boosting UI responsiveness and user engagement by **30%**.

Projects

Adda AI | Next.js, NestJS, PostgreSQL (pgvector)

May 2025 – June 2025

- * Developed an AI character chat platform using **Google Gemini AI**, **Vercel AI SDK**, enabling real-time conversations with **100+ sign ups**.
- * Implemented **vector embeddings (768-d)** with **pgvector**, achieving **85% faster** semantic search in chat history.
- * Enhanced multilingual support and contextual memory, improving user retention by **35%**.

Encorp AI | Next.js, Express.js, Golang, PostgreSQL

Feb 2025 – Mar 2025

- * Designed and built an AI-powered slide generator using **Gemini AI**, **Next.js**, **Node.js**, and **Golang**, streamlining content creation and reducing manual effort by **60%**.
- * Optimized task processing with a **Redis-based queue** and **Golang worker**, reducing API latency by **40%**.
- * Integrated **PDF and PPT exports** using **jsPDF** and **pptgenx**, boosting user engagement by **50%**.

BetterUptime | Next.js, Node.js, PostgreSQL, Turborepo

June 2025 – Aug 2025

- * Built a distributed uptime monitoring system handling **30+ websites**, with automated checks every 5 minutes.
- * Implemented **RabbitMQ**, **Redis queues**, and **Nodemailer**, ensuring **99.9% reliable email notifications** for downtime and recovery alerts.
- * Designed a real-time dashboard in **Next.js** with **Better Auth (Google OAuth)**, reducing incident response time by **45%** for users.

Languages

Bengali, Hindi, English

Achievements

- * Secured **Top 15** position out of 100+ teams in the **100xDevs Solana Mini Hackathon**, winning **\$100**.
- * Achieved **100+** day GitHub streak with over **2500+** contributions in **2025**
- * Actively contributed to **conar.app**, with **15+** PRs merged in **2025**, enhancing functionality, performance, and code quality.