RUDRA SANKHA SINHAMAHAPATRA

Bankura,West Bengal,India

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Education

Kalinga Institute of Industrial Technology   Bhubaneswar, India
Bachelor of Technology in Computer Science and Engineering   *Sep 2022 - June 2026*
CGPA : 8.24

Technical Skills

Languages: C, JavaScript, TypeScript
Web Technologies: React.js, Next.js, HTML5, CSS3, Node.js, Express.js, Tailwind CSS, Prisma, TurboRepo
DevOps: Docker, AWS, Cloudflare Workers, CI/CD
Database: MongoDB, PostgreSQL, Redis
Tools: Postman, Git, GitHub, VS Code, IntelliJ IDEA

Experience

Full Stack Developer Intern   Dec 2024 – June 2025
FirstList Technology Solutions Pvt. Ltd.   *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), AWS, Docker Supabase, Vercel AI SDK*   **May 2025 – June 2025**

🐙 GitHub — 🌐 Live

* 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, React.js, Node.js,Express.js Golang,Redis, PostgreSQL,Prisma*   **Feb 2025 – Mar 2025**

🐙 GitHub — 🌐 Live

* 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, BetterAuth, RabbitMQ, Redis, PostgreSQL, Prisma, Turborepo*   **June 2025 – Aug 2025**

🐙 GitHub — 🌐 Live

* 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 **2000+ contributions** in **2025**