Vivek Ranjan

☑ vivekranjan0821@gmail.com

८ +91 8789274109 **in** Vivekr07 **○** Vivekr077

Education

Indian Institute Of Information Technology, Ranchi

2022 - 2026CGPA: 8.72

B. Tech in Electronics and Communications Engineering

Experience

Wemofy Software Developer Intern Remote

Feb 2025 - May 2025

- Architected and deployed a scalable Medical Tourism platform using the MERN stack on AWS EC2, streamlining booking workflows and managing data for treatments, hospitals, hotels, and post-care.
- o Optimized backend performance, improving patient data handling efficiency by 40% through schema restructuring and cloud-based deployment.
- Automated medical report analysis with Gemini API, reducing manual review time by 60% via AI-driven insights and classification.
- Integrated Notion and Google Keep via OAuth, enabling secure cross-platform task synchronization. Built GPTpowered pipelines to auto-generate card-based workflows with reminders, reducing manual task effort by 50% and increasing engagement by 35%.

Personal Projects

EduSphere-AI | Deployed §

Github 😱

Technologies: JavaScript (ES6+), Next.js, NeonDB, Drizzle ORM, Inngest, Stripe, Clerk

- Built a responsive and intuitive frontend with React and Tailwind CSS, ensuring 100% mobile responsiveness and improving accessibility for diverse learners across devices.
- Designed and programmed an AI-powered personalized study material generator, incorporating flashcards, quizzes, detailed **notes**, and a dynamic Q&A system, reducing manual study preparation time by 60%.
- Integrated Clerk for multi-provider authentication, increasing user sign-up flexibility by 30%, and configured Stripe to enable 100% secure payment processing with smooth subscription management.
- Developed event-driven workflows using **Inngest**, improving task automation efficiency and enabling reliable **real-time** event processing with 99.9% uptime, while utilizing NeonDB for secure data storage.

Horizon | Deployed &

Github (7)

Technologies: Next.js 14, React 18, TypeScript, Appwrite, Plaid API, Dwolla API, Chart.js, Zod, Sentry, Node.js

- o Developed a full-stack banking platform using Next.js 14, React 18, and Tailwind CSS, enabling users to integrate and manage multiple bank accounts with real-time synchronization across 100% of transactions.
- o Integrated Plaid API for secure multi-bank connectivity and Dwolla API for peer-to-peer transfers, reducing transfer failures by 25%.
- o Designed a responsive financial dashboard with shadcn/ui and Chart.js, supporting real-time monitoring of 1000+ transactions and sub-second load times.
- Implemented enterprise-grade security and compliance features with **Appwrite authentication**, encrypted data storage, and validation using **Zod**, achieving 99.9% PCI-compliant reliability with error tracking via **Sentry**.

ConnectX | Deployed §

Github 😱

Technologies: React, MongoDB, Socket.io, Express.js, Node.js, Zustand, JWT, Bcrypt, Multer, Cloudinary, ShadCN, Tailwind CSS

- o Built responsive real-time messaging with multi-user channels using WebSocket, stress-tested to handle 50+ simultaneous connections with instant delivery.
- Engineered image upload/download capabilities to support multimedia sharing via Cloudinary, improving media load times by 40%.
- Implemented secure authentication and end-to-end encryption using JWT and Bcrypt, while leveraging Zustand for global state management.
- Optimized database queries with MongoDB indexes, reducing message fetch time by 60%.

Technical Skills

Languages: C, C++, Python, HTML5, CSS, JavaScript, TypeScript, SQL

Libraries: Bootstrap, Tailwind CSS, ShadCN/UI, Material UI, Mongoose, Zustand, C++ STL

Web Dev Tools: Git, GitHub, Postman, Sequelize, Gemini API

Frameworks: React.js, Node.js, Express.js, Next.js

Cloud/DevOps/Databases: MongoDB, postgreSQL, Cloudinary, Firebase, Docker, AWS EC2

Achievements

- Solved over 800+ problems across GFG, LeetCode, and other platforms.
- Led and mentored a team of 3 interns in building a Medical Tourism platform, driving task delegation, collaboration, and timely delivery of project milestones.
- Qualified the internal round of Smart India Hackathon (SIH).