AGNIBHA CHAKRABORTY

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EDUCATION

Vellore Institute of Technology — Bhopal, India
Integrated M.Tech - Computer Science Engineering Cumulative GPA : 9.36 — Oct 2022 - Present

J.M. Institute — Singur, West Bengal
Higher Secondary - 94% — 2022
Matriculation - 90% — 2020

SKILLS

Programming Languages	JavaScript, TypeScript,Python , C/C++
Frameworks and Libraries	ReactJS, NodeJS, ExpressJS, NextJS, HonoJS, MongoDB, PostgreSQL Appwrite Langchain, Langraph, Qdrant-VectorDB , Neo4j-GraphDB
Version Control	Git, GitHub
Other Tools	Postman, Vercel, Docker, Langfuse, Langsmith, MCP Servers, Prisma ORM

EXPERIENCE

SDE Intern — Jun 2024 - Aug 2024
Parytranaya Global Pvt Ltd (Turantlo) — *New Delhi, India*

- **Achieved 20% reduction**in order processing time for **Turantlo (Quick-commerce application for medicines and health supplements)** using MongoDB, Express.js, and Node.js skills.
- **Led** backend development for Turantlo, resulting in a **25% improvement in inventory management efficiency.**
- **Developed and upgraded 15+ APIs and backend solutions, managing over 1,000 customer orders daily, handling inventory for 500+ products, and processing client-server requests with a response time improvement of 30% using MongoDB, Express.js, and Node.js**

SDE Intern — Jan 2017 - Jan 2019
Kuberakshi Business Solutions Pvt Ltd (myresQR.life) — *Indore, India*

- **Engineered and optimized** 5+ core platforms (main website, dealer portal, admin portal, user registration, post-scan portal) using **React.js**, **Tailwind CSS**, and **Recoil**, boosting platform responsiveness by **30%** for emergency response communications.
- **Integrated** seamless API interactions with **Axios** and **ShadCN** components, enhancing user experience and **reducing frontend errors by 25%** across customer-facing interfaces.
- **Accelerated** emergency communication workflows at **myresQR.life**, strengthening user-stakeholder connectivity for **500+ users** through scalable, intuitive frontend solutions.

PROJECTS

Shadow-Speak: Anonymous Feedback Assistant (Project Link)

- **Enhanced user engagement by 35%** and **feedback relevance by 40%** by developing a **full-stack Next.js app** with **NextAuth** for authentication and integrating an **AI feedback engine** using **Vercel AI SDK**, **reducing server request load by 30%** and **page load time by 50%**.
- **Strengthened data integrity** and **application reliability by 25%** through streamlined **database management with MongoDB** and **schema validation using Zod**, **minimizing data inconsistencies** and ensuring accurate feedback collection.

SteamSync: The Social Media Cinema (Project Link)

- **Streamlined Video Experience**: Enhanced video management by **reducing upload time from 8 to 3 seconds**, managing **200+ videos**, and driving **300+ weekly interactions**. **Increased user retention from 25% to 45%** through real-time features like liking and commenting, boosting overall engagement.
- **Optimized Backend Performance**: Utilized **MongoDB aggregation pipelines** to handle **500 concurrent users** effectively, **reducing server response time by 20%** and ensuring a scalable, high-performance backend for a seamless user experience.

EXTRA-CURRICULAR ACTIVITIES

Achievements and Responsibilities

- **Ranked among the top 3 academically** out of a batch of **200+ students** and secured a **top 10 national finalist position** in the **Blockbash Hackathon by Hackerearth**, outperforming thousands of teams through consistent excellence and competitive problem-solving.
- **Led the Blockchain Club at VIT Bhopal**, managing **50+ members** and organizing **4+ technical events** to boost engagement and learning; also resolved academic issues for **200+ students as Academic Secretary** by collaborating with the Student Welfare Office.