Thanus Kumaar A

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Education

Amrita Vishwa Vidyapeetham, Coimbatore
B.Tech in Computer Science & Engineering

CGPA: 9.09
Sep 2022 – Aug 2026

Indian Institute of Technology, Madras (Online)
B.Sc in Data Science & Programming

CGPA: 8.35
Jul 2022 – Sep 2026

Experience

LogicFlo AI: Full-Stack Developer Intern (Oct 2024 – Dec 2024)

- Delivered key features for the company's live application, primarily focusing on **frontend development** using **React**, while also assisting in **backend tasks** with **Django** and **PostgreSQL**.
- **Connected with APIs** and developed over **5 production-ready features** related to **AI tools and AI agents**, significantly enhancing application functionality.
- Utilized over **4 external libraries**, including **React Flow**, and **React Tool Builder** to craft interactive, user-friendly interfaces. Achieved expertise in writing **library-independent code** by implementing features from scratch.
- Mastered **production-ready coding practices**, time management, and collaborative development within a **startup**.

Projects

Anokha 2024: React.js, Tailwind CSS, GSAP, Figma GitHub Repository

- Architected a full-stack web app for **Anokha 2024 Techfest**, facilitating **smooth event registration** for over **1,000 attendees**. Improved the user experience through **responsive UI** design and performance optimization.
- Led a team of **7 developers**, coordinating front-end and back-end tasks, ensuring **timely delivery** of features in a fast-paced environment.
- Contributed significantly to **designing responsive front-end components** using **Next.js** and **Tailwind CSS**, achieving **100% mobile responsiveness** across various devices.
- **Integrated RESTful APIs** using **axios library and postman** to connect frontend with backend, boosting **data processing speed by 25%** and ensuring high system reliability.
- Applied **agile methodologies** in **team collaboration** and honed skills in **scalable application design** and **API management**.

Mediclined: Next.js, Tailwind CSS, MUI, Express.js, MySQL, MongoDB, ESP32 Link

- Designed **Mediclined**, a comprehensive web application for managing college healthcare systems, during a **36-hour hackathon**, where the team secured **second place**.
- Implemented **dual-database architecture** (2 servers), using **MySQL** for structured, relational medical records and **MongoDB** for flexible, unstructured data, to accommodate growing data needs and support flexible query operations.
- Built a **digital health record system** with **smart forms** powered by **regex autocomplete** and enabling bulk **CRUD operations** with 90% faster input validation.
- Introduced an **automated prescription system** and **pharmacy delivery service**, reducing **manual processing time by 75%**.
- Optimized **authentication system** with role-based access control (RBAC) using **JWT tokens**, securely managing **4 user roles** (students, doctors, nurses, admin).

IoT Network Management System: Tech Stack: React.js, Tailwind, Material UI GitHub Repository

- Created a **hybrid data structure** to manage network topology, improving the **efficiency** of **network operations** by **30%**.
- **Developed real-time network visualizations** using **D3.js**, enabling dynamic, **interactive displays** of the network status and **topology changes**.
- **Obtained Knowledge** about **routers, switches**, and **data visualization** techniques, worked with 5+ **IoT and network devices** and **scalable web applications**.

Skill Set

Programming Languages: C, C++, Python, Java, Rust, JavaScript
Frameworks: React.js, Vue.js, Node.js, Flask, Express.js, WebSockets
Databases: MySQL, SQLite, PostgreSQL, MongoDB
Tools: Git, GitHub, Linux, Postman, Hopscotch, Chrome dev tools, Figma, Visual Studio Code

Extra-curricular

NSS Volunteering: Coordinator of NSS Unit-3, organized **6+ successful events** and coordinated a team over **3 years**.