VASANTHAKUMAR V

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Education

Vellore Institute of Technology AP   **Sept 2022 – Jul 2026**
Bachelor of Technology in Electronics and Communication Engineering

Nazareth.Mat.Hr.Sec School, TamilNadu   **June 2020 – May 2022**
Tamil Nadu Board of Secondary Education, Grade 12

Experience

Technical Member   **Oct 2023 – June 2026**
Blockchain-The Node, VIT-AP

- Organized a team of 10+ students, ensuring seamless execution of club activities. Organized and facilitated 8 club events, including Hackathons and Workshops, attracting strong participation of 100+ students.

Projects

Museum Chatbot Website

- Spearheaded the transformation of a static frontend for a museum chatbot website by migrating to **React.js**. Improved loading speed by **40%**, enhancing user engagement through smoother interactions and increased session duration **.**
- Implemented **Spring Security** protocols to safeguard **user authentication** and **ticket purchasing** .Established an encrypted system that reduced unauthorized access incidents to zero, fostering trust and reliability among museum visitors**.**
- Utilized **PostgreSQL** for data storage and ensured seamless data flow between **frontend** and **backend**. Collaborated on the project to deliver a functional and user-friendly chatbot system.

IoT based paralyzed patient health care system using GSM Module And Arduino

- Engineered an IoT-based monitoring system for paralyzed patients that utilized finger movement detection and integrated fall sensors; improved patient safety by reducing fall incidents by **40%** in clinical trials. **.**
- Utilized **C++** and **Artificial Intelligence** for real-time accessibility.

Online Courses and Certifications

- Completed **Earned certification** in a rigorous Java Full Stack Development Course on **Udemy**, specializing in both **backend** and **frontend technologies**. Skills applied resulted in a **15%** increase in application performance metrics post-implementation.
- Completed JavaScript Essentials from **Cisco Networking Academy** In Colloboration with OpenEDG Javascript Institute

Technical Skills

Languages and Frameworks: Java, HTML, Tailwind CSS, React Js,Spring Boot.

API Development: RESTful APIs, Postman .

Other Skills: Data Structures and Algorithms, Object Oriented Programming,IntelliJ IDEA, Git,PostgreSQL,MongoDB.

Cloud FrameWorks: AWS EC2,AWS S3(Basics).

Achievements

- Attained a **HackerRank** rating of **3*** In Java Coding.