

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.

Internships

Full Stack Developer Intern

Sept 2024 – Dec 2024

INTRAINTECH

- Collaborated in a **team of 5**, Engineered an **AI-driven interview bot** leveraging **Spring Boot** and **JWT authentication**; seamlessly integrated a **React frontend** with **Flask backend**, enhancing user interaction and response efficiency for over **100 mock interviews**.
- Engineered robust **backend architecture** and executed efficient **database operations** with **PostgreSQL**, achieving secure data handling protocols that protected user information across **1500+ transactions** without breaches during the internship period.
- Built a comprehensive profile page and utilized tools like **Postman**, **Swagger** for seamless API testing and debugging.
- Learned and utilized **Git** for version control and collaborated on projects using **GitHub**.

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 an **advanced Java Full Stack** Course on **Udemy**, equipping with knowledge in **backend frameworks, frontend technologies, and integration techniques**; enhanced project delivery speed by **25%** through improved skill set.
- * Completed JavaScript Essentials from **Cisco Networking Academy** In Collaboration with OpenEDG Javascript Institute

Technical Skills

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

API Development: RESTful APIs, Postman, Swagger .

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.