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 2024**
Blockchain-The Node, VIT-AP

- Led a team of 10+ students, ensuring the successful execution of club activities and fostering a collaborative environment.
- Organized and facilitated 8 major events, including Hackathons and Workshops, engaging over 100 participants and enhancing community involvement.

Internships

Full Stack Developer Intern   **Sept 2024 – current**
INTRAINTECH

- Collaborated with a team of 5 to develop an AI-driven interview bot using Spring Boot and JWT authentication, integrating a React frontend with a Flask backend, which improved user interaction and efficiency for over 100 mock interviews.
- Executed secure database operations with PostgreSQL, safeguarding user information across 1500+ transactions without breaches.
- Established Git branching strategies and conducted thorough code reviews via GitHub, reducing code conflicts by 20% and enhancing team collaboration across three concurrent sprints.
- Implemented Postman and Swagger documentation, decreasing API debugging time by 15% and facilitating the rapid integration of five new microservices within a six-month project timeline.

Projects

RoomPal: RoomMate Expense Manager

- Developed a full-stack expense tracking application using React and Spring Boot, incorporating real-time receipt scanning and RESTful APIs, resulting in a 30% increase in user engagement.
- Spearheaded the creation of RESTful API endpoints with Spring Boot, enhancing application performance by 15% through secure React Context-based solutions for GET/POST calls using JWT tokens.
- Utilized MongoDB for data storage and Docker for deployment, ensuring seamless user authentication and efficient expense management for over 100 transactions.

IoT-based Paralyzed Patient Healthcare System using GSM Module and Arduino

- Designed 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.
- Engineered a real-time accessibility enhancement using C++ and AI, enabling voice command functionality for a digital interface that reduced task failure rates by 15% for users with motor impairments.

Online Courses and Certifications

- Completed an advanced Java Full Stack Course on Udemy, enhancing backend frameworks, frontend technologies, and integration techniques, resulting in a 25% increase in project delivery speed.
- 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, Docker.

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

Achievements

- Achieved 1st place in the HackVerse hackathon as part of a 4-member team, developing RepoRadar, a tool for detecting copied GitHub repositories.
- Mastered core Java programming concepts through rigorous self-study and hands-on coding, achieving a top 10% ranking on coding platforms and enhancing proficiency in object-oriented design and data structures.