VISHVESH B

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Education

Chennai Institute of Technology, Chennai   2023 – 2027
B.E. Electronics & Communication   **CGPA: 9.05/10**
Class XII: **96.33%** (2023) **Govt Model School, Tiruvallur**, Class X: **87%**(2021) **Govt Hr Sec School, Kavaraipettai**
Relevant Coursework: Software Development, Full Stack Development, OS, Data Structures, & Algorithms, VLSI Design

Work Experience (Internships)

Software Development Engineer Intern | Decathlon Sports Pvt.Ltd   Jul 2025 - Dec 2025
Python, Image Processing, CRUD Operations, Docker, AWS Integration, API Management, Resource-Constrained Development
- Engineered a full-stack MERN dashboard, Dockerized and deployed on AWS, cutting service disruptions by over 95%.
- Designed an ML-based image processing pipeline achieving 90% accuracy, cutting manual errors and automating 900+ records.

Full Stack Developer Intern | Arwin Networks   Nov 2025 - Dec 2025
React, Node.js, MongoDB, Three.js, CRUD, AWS Integration, CI/CD Pipeline, GitHub Actions, Web App Development
- Developed a full-stack real estate web app with 3D interactive interfaces using React, Node.js, MongoDB, and Three.js.
- Deployed on AWS EC2/Elastic Beanstalk with custom domain and CI/CD pipelines via GitHub Actions for auto - deployment.

Software Development Engineer Intern | Nokia Networks and Solutions   Dec 2024 - Jan 2025
QR Code Systems, VR/XR, XR Arena, CRUD Operations, Web Application Development, React, Node.js, MongoDB
- Built a QR code–based attendance management system, automating team attendance tracking and reducing manual effort.
- Developed an inventory system to compute producible quantities and component requirements across multiple products.
- Designed VR-based training modules using **XR Arena** to enable process learning for new freshers without physical hardware.

Projects

Sound Source Localization using SRP-PHAT Algorithm
Acoustic Signal Processing, SRP-PHAT, Python, FFT Optimization, Real-Time Systems
- Implemented SRP-PHAT localization algorithm with optimized signal processing pipeline in Python.
- Reduced computation latency by 6.6x using FFT-based optimization and sparse grid search, enabling 100ms real-time execution.
- Benchmarked and validated algorithm performance against MUSIC and GCC-PHAT baselines using Python.

Scam Escape – Interactive Cybersecurity Awareness Game   GitHub
React, Node.js, Express.js, MongoDB, Tailwind CSS, Firebase, Decision-Tree Logic, Web App Development
- Developed an interactive choice-based web game simulating real-world financial scam scenarios to improve user awareness.
- Implemented a map-structured decision engine that dynamically adapts story paths based on user choices and decisions.
- Integrated quiz-based gameplay covering phishing, vishing, and identity theft with actionable safety feedback mechanisms.
- Built and deployed the full-stack application using React, Node.js, Express.js, MongoDB, Tailwind CSS, and Firebase.

TV Set-Top Box Recharge & Subscription Platform   GitHub
Node.js, Express.js, React+Vite, Tailwind CSS, MongoDB, AWS Elastic Beanstalk, CICD Pipeline, GitHub Actions, Razorpay
- Developed a robust full-stack web platform enabling TV set-top box users to recharge selective packs and channels efficiently.
- Designed an optimized MongoDB schema and enhanced search logic with filters for fast, accurate, and smooth plan selection.
- Integrated advanced cart management and Razorpay payment gateway for secure, seamless, and reliable transactions.
- Deployed the application on AWS Elastic Beanstalk with CI/CD via GitHub Actions, ensuring scalable production.

Skills

- **Programming:** Python, C, C++ (Object Oriented Programming), Java, TypeScript, Embedded C, Linux
- **VLSI Design and Verification:** Design for test, Full-Custom Design, Design and Verification, System Design, ASIC
- **UI and GUI Frameworks:** React JS, Angular JS, TailwindCss, Python frameworks (Pyqt5, Tkinter), Next JS
- **Backend & Database:** MySQL, MongoDB, SQLite, Firebase, Node.js, Express.js, Flask, Postman, FastAPI
- **Cloud/DevOps & Tools:** Git, GitHub, Docker, AWS, GitLab,Vercel, Render, Azure, VSCode, Vim, Firebase

Achievements

- Finalist - Lam Research Challenge 2025 (Autonomous Line Follower Robot, Single Arm Robot, Obstacle detection and removal)
- Finalist - Unplugged 2.0 (Sanghvi College of Engineering), Sustainability Ideathon 2024 (Chennai Institute of Technology).
- Finalist - Fintechathon (NIT Trichy, Scam Escape - Scam Awareness Story Game), Finalist - codeathon (2023-2024)

Certifications

- CCNA-Introduction to Networks, Networking essentials, Introduction to Cybersecurity, Cybersecurity Essentials.
- NPTEL: Industrual Internet of Things 4.0, VLSI Design Flow: RTL to GDS

Competitive Programming

LeetCode: 450+ problems solved Max Rating: 1591 **CodeChef:** 2-Star Coder || 100 problems solved || Best contest rank: 139

Volunteering

- Conducted orientation sessions for first-year (2024-28 Batch) students on **C programming**, **Data Structures & Algorithms**, and **Competitive Programming** platforms including LeetCode and CodeChef.
- Organized and delivered **3** comprehensive hands-on workshops on the complete RTL-to-GDS design flow.
- Trained **30+** students per session on end-to-end VLSI concepts through practical exercises and real-world design examples.