

Vignesh S Naik

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EDUCATION

Govt Model Engineering College, Thrikkakara <i>B.Tech in Computer Science and Engineering – APJ Abdul Kalam Technological University</i>	CGPA: 7.3 2021 – 2025
TD HSS Thuravoor <i>Higher Secondary – Kerala HSE</i>	97.8% 2019-2021
Kendriya Vidyalaya No 1, Naval Base, Kochi <i>Matriculation – CBSE</i>	89.4% 2019

TECHNICAL SKILLS

Programming Languages: C, C++, Golang, JavaScript
Web Technologies: React.js, Node.js, HTML/CSS, Hugo, Astro
Tools: Docker, Git, GitHub, Figma, Canva
Database: SQL, NoSQL, Firebase
Operating Systems: Linux, Windows
Other: Data Structures and Algorithms

EXPERIENCE

Software Engineer Intern , redBus India <ul style="list-style-type: none">Working on the Core Backend API ServicesDeveloping and maintaining APIs for microservices architecture.Ensured performance, security, and seamless service integration.	Jan 2025 – Present
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PROJECTS

Code Visualizer <i>React, CodeMirror, D3.js, gRPC, Node.js, Express</i> <ul style="list-style-type: none">Developed an interactive code visualizer to illustrate data structures and algorithms in real-time.Built a Node.js and Express backend for handling visualization requests.Implemented gRPC for efficient inter-service communication, ensuring low-latency data exchange.Optimized performance for large data structures with efficient rendering techniques.	March 2025
Portfolio Website <i>Astro, HTML/CSS</i> <ul style="list-style-type: none">Designed a personal portfolio website using the Astro framework to showcase projects and skills.Deployed on GitHub Pages with a responsive UI for both mobile and web access	June 2024
Tokenization of Physical Assets <i>React.js, Supabase, Smart Contracts, Moralis API</i> <ul style="list-style-type: none">Developed an application for tokenizing and trading physical assets using NFTs, enabling faster asset verification through automation of transactions via smart contracts.Built a front-end for asset tracking and transaction verification, improving transparency in asset management	Sept 2023 – April 2024
xTend <i>Arduino, Flutter, NodeMCU, Firebase API</i> <ul style="list-style-type: none">Designed and implemented a health emergency detection system, reducing response time for health alerts via real-time monitoring using Pulse-oximeter sensors.Implemented during the Young Innovators program and Samsung Solve for Tomorrow 2022 among top 50 across India	Sept 2022 – Dec 2023
Zenith <i>React, Node.js, Express.js, Supabase</i> <ul style="list-style-type: none">Created a comprehensive fintech app for financial planning with goal-setting and income management featuresWorked on during a 24-hour hackathon (MEC.hack '23)	Oct 2023

EXTRACURRICULAR ACTIVITIES

Chairperson, TLE MEC

Jun 2024 – Present

Competitive Coding and Data Structures and Algorithms Club

Govt Model Engineering College

- Coordinated with a team of 12 members to organize 5+ competitive programming events, attracting 100+ participants and promoting algorithmic thinking.
- Conducted 3 workshops, improving coding proficiency and algorithmic problem-solving skills among over 100 students.

Web Administrator, MACS MEC

Jun 2024 – Present

Association of Computer Science Engineering Students

Govt Model Engineering College

- Managed the official college website with 99% uptime, implementing enhancements that reduced page load time by 20% and improved user navigation.
- Led a team of 5 developers to optimize the back-end integration, increasing user engagement by 15%.

Competitive Programming Lead, TLE MEC

Jun 2023 – May 2024

Competitive Coding and Data Structures and Algorithms Club

Govt Model Engineering College

- Coordinated with a team of 12 members to organize 5+ competitive programming events, attracting 100+ participants.
- Conducted 3 workshops, improving coding proficiency for over 100 students.

Project Manager, MACS MEC

Aug 2023

College Fresher Registration Portal

Govt Model Engineering College

- Led a team of 6 students to develop a registration portal for newly admitted students.

ACTIVITIES AND ACHIEVEMENTS

Secured Top 50 in Samsung Solve for Tomorrow 2022

Volunteer at IDEALab, a MATLAB training program accommodating 80+ Higher Secondary students