

# Anand Vyas

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## EDUCATION

### Vellore Institute of Technology

*Bachelor in Computer Science and Engineering (CGPA: 8.21/10.0)*

Bhopal, MP

2023 – 2027

### Red Rose School

*Class XII (Senior Secondary) (Grade: 75%)*

Bhopal, MP

2021

## EXPERIENCE

### Vyomfix

*Software Engineering Intern*

Bhopal, MP

Feb 2026 – Present

- Developing a service-oriented frontend using **React 19** and **Tailwind CSS v4**, increasing UI component reusability by **35%** through modular architecture.
- Optimizing development cycles with **Vite** and **Yarn**, resulting in a **50% reduction** in local server start-up times for the engineering team.
- Architecting state management for real-time tracking modules, reducing API overhead by **20%** using efficient data caching and memoization.
- Integrating complex backend data structures with frontend views to ensure scalable performance for **1,000+** concurrent user sessions.

## PROJECTS

### MetroInFlow | React, Tailwind, Supabase, Go, Docker, GCP

Sep 2024 – Dec 2024

- Designed a document intelligence solution for metro officials, improving overall workflow efficiency by **40%**.
- Built a **React 19 + Tailwind dashboard** featuring role-based navigation and session persistence for **50+** concurrent officials.
- Configured **Supabase with RLS** for secure access control across **3 user tiers** and **2,000+** stored files.
- Containerized services using **Docker** to automate deployment on **GCP**, maintaining **99.9% uptime**.

### HealthMenta.ai | React, Python, Flask, MongoDB, AI/ML APIs

May 2023 – Aug 2023

- Developed an **AI-powered symptom evaluator** achieving **90% prediction accuracy** across 200 clinical test cases.
- Implemented geospatial search via **MongoDB indexing**, enabling sub-second discovery of **1,000+** medical centers.
- Engineered a cross-platform interface supporting real-time health alerts and secure medical history tracking.

## ACHIEVEMENTS

### MariaDB Global Hackathon — Winner | Project: Multimodal Metadata Hub

Aug 2025 – Nov 2025

- Engineered a semantic search platform using **FastAPI** and **MariaDB 11.8**, handling **1,000+** documents with sub-second latency.
- Integrated **MariaDB Vector Search** to query 512-dimensional embeddings for visual and textual similarity.

### JHU Global Health Hackathon — Winner | Project: Margdarshak

Sep 2024 – Dec 2024

- Led a team of **6 members** to build an IoT navigation aid for the visually impaired using **Raspberry Pi 4**.
- Deployed **YOLOv8** and **OpenCV** for real-time obstacle detection with audio feedback, processing **30 FPS** locally.

## TECHNICAL SKILLS

**Languages:** Java, Python, Golang, SQL (PostgreSQL), JavaScript, TypeScript

**Frontend:** React.js, Next.js, Redux Toolkit, Tailwind CSS (v4), HTML5/CSS3

**Backend:** Spring Boot, Node.js, Express.js, FastAPI, REST APIs, Microservices

**Cloud & Tools:** Docker, Kubernetes, GCP, Git, GitHub, CI/CD, Supabase, Vite