

V Aditya Teja

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SUMMARY

Aspiring Software Architect with a solid foundation in backend development, system design, and DevOps. Proficient in C++, Python, and Node.js, with hands-on experience building scalable APIs, containerized applications, and robust database-driven systems. Currently focused on optimizing system performance and enhancing architectural thinking through practical experience. Committed to designing efficient, reliable, and secure software systems that support impactful, real-world solutions.

TECHNICAL SKILLS

Programming Languages: C++ (4/5), Python (4/5), Java (3/5), SQL (3.5/5), Node.js (3.5/5)

Backend & DevOps Tools: Docker, Postman, Git, pgAdmin, Nginx, PM2

Libraries & Frameworks: Scikit-learn, Matplotlib, OpenCV, yoloV8n

Others : REST APIs, Linux CLI, VS Code, VS 2022, GitHub

PROJECTS

Health Monitoring Application

Feb 2025

Full-Stack Project

Python, TensorFlow, OpenCV

- Designed and developed a full-stack health monitoring system enabling users to manage personal health data and prescriptions.
- Integrated a MedPalm-inspired AI to identify potential medication conflicts based on historical health records
- Implemented secure data handling and scalable backend architecture using Node.js, Python and MongoDB to support real-time recommendations.

AI Powered Pedestrian assistant for blind people

Aug 2022 – Dec 2022

DeepLearning and IOT Project

Python, Flask, NLTK, Hugging Face

- Engineered an IoT-based smart navigation system using YOLOv8n for real-time object detection to assist visually impaired individuals.
- Integrated Raspberry Pi with camera modules and OpenCV to detect obstacles and deliver audio navigation prompts.
- Optimized system performance with lightweight ML models for reliable on-device inference in outdoor environments.

EDUCATION

Vellore Institute of Technology

Bhopal, India

Bachelor of Computer Science and Engineering

Sep 2023 – May 2027

Fiitjee Junior College

Hyderabad, India

12th

Aug 2020 – May 2022

FiitJee World School

Hyderabad, India

7th - 10th

June 2017 – May 2020

ACHIEVEMENT

Health Hackathon

Feb 2025

- Reached the final stage among 500+ teams all across India.
- Served as the primary Backend Developer, designing scalable API's and integrating real-time data from the database for analytics.
- In collaboration of VIT Bhopal and John Hopkins University.