

Frank Mathew Sajan

Amaravati, India | frankmathewsajan@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Portfolio](#)

EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science, Specialization in AI/ML

Amaravati, India

Sept. 2023 – Jul. 2027

CGPA: 8.62 / 10.00

Coursework: Data Structures & Algorithms, OOP (Java/C++), DBMS (Normalization), OS (Concurrency)

TECHNICAL SKILLS

Data Science & ML: Pandas, NumPy, Scikit-learn, Deep Learning (Basic), Data Visualization (Matplotlib), RAG

Languages: Python, SQL, C++, Java, JavaScript (ES6+)

Core Concepts: Data Structures & Algorithms, Database Normalization, System Design, OOP

Frameworks: React.js, Django, FastAPI, TensorFlow/Keras (Exposure), REST APIs

Tools & Cloud: AWS (EC2, S3), Docker, Git/GitHub, VS Code, Supabase, Linux/Bash

EXPERIENCE

Founding Engineer & Product Lead

Aug 2025 – Present

House of Muziris (D2C Startup) | [Live Link](#)

Kerala, India

- Architected a data-centric full-stack MVP using React, Django, and PostgreSQL, ensuring rigorous data validation for FSSAI compliance and supply chain tracking.
- Designed a normalized database schema to model complex inventory states, preventing data inconsistency and enabling accurate stock forecasting.
- Implemented analytics logging within the high-availability waitlist system to capture user engagement metrics during marketing campaigns.

Software Engineering Intern

Jun 2025 – Jul 2025

TechtoGreen Drone & Robotics Pvt. Ltd. (IIEC Incubator) | [Case Study](#)

Vijayawada, India

- Engineered the cloud inference pipeline for a Deep Learning anomaly detection model on AWS EC2, implementing system observability via RESTful APIs.
- Analyzed flight path data to optimize autonomous drone control algorithms, resulting in a 30% increase in field coverage efficiency.
- Engineered a fault-tolerant data transmission pipeline using LoRa, achieving >99% Packet Delivery Ratio (PDR) for critical telemetry datasets.

Deputy Captain - Technical Research

Sep 2023 – Present

IETE VIT-AP (Student Chapter)

Amaravati, India

- Mentoring 20+ student developers in technical research, fostering a culture of data-driven experimentation in Embedded Systems and IoT projects.
- Reviewing technical papers and IoT developments to drive innovation in student research initiatives.

PROJECTS

NASA Space Apps Challenge (Global Nominee) | React, Satellite Data API, AI

Oct 2024

- Selected as a Global Nominee (Top 1% of 93,000+ participants) for engineering an AI-driven tool utilizing PACE satellite data.
- Built a dynamic Data Visualization dashboard to simplify complex oceanographic datasets, making scientific data accessible to non-technical users.

Rural School Management System | PostgreSQL, Supabase, Data Pipelines

Aug 2025 – Nov 2025

- Digitized academic records for 200+ students, establishing a structured data pipeline that reduced manual entry time by 15 hours/week.
- Optimized SQL queries for reporting modules, cutting data retrieval latency by 35% on low-bandwidth networks.

CERTIFICATIONS & AWARDS

Cloud/AI: AWS Academy Graduate (Cloud Architecting), Oracle GenAI Certified Professional (2025)

Code: CS50P: Programming with Python (Harvard, 2024), Automation Anywhere Essentials (2025)

Leadership: McKinsey.org Forward Program (Problem Solving & Leadership, 2025)

Awards: Rajya Puraskar (State Award, Bharat Scouts & Guides) – Highest State Honor for Discipline.