GANESAMURTHI V

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EDUCATION

B.Tech in Computer Science and Business Systems |

Sri Manakula Vinayagar Engineering College, Puducherry — Expected May 2027

PROFESSIONAL SUMMARY

Computer Science and Business Systems undergraduate with hands-on experience in full-stack web development, REST API design, and machine learning deployment. Skilled in Python, TypeScript, React, Next.js, Flask, and PostgreSQL. Interned at Iinvsys and Neurealm, delivering time-series ML forecasting pipelines, Flask APIs, and Next.js interfaces. Building two SaaS and open-source projects. Seeking a software development internship to contribute to engineering teams.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C/C++

Frameworks & Libraries: React.js, Next.js, Flask, REST APIs

Databases: PostgreSQL, MySQL, Supabase, Firebase

Tools & Platforms: Git, GitHub, Docker, Vercel, Railway, Resend

EXPERIENCE

Software Development Intern | Iinvsys, Puducherry — Jun 2025 – Aug 2025

- Developed an AI-powered Air Filter Prediction System using time-series forecasting with the TSMixer architecture, covering the full pipeline from data preprocessing and feature engineering to model training and production deployment.
- Built Flask REST APIs for real-time prediction services, enabling seamless integration with external applications and monitoring dashboards.
- Created web-based interfaces for visualizing prediction outputs, improving usability for end users and operational teams.

Software Development Intern | Neurealm, Chennai — Aug 2026 – Sep 2026

- Developed responsive web interfaces using Next.js and implemented backend functionality using .NET.
- Built a flight booking application with flight search, user authentication, and booking features, integrating 5+ API endpoints.
- Perf Tested application workflows, identified and fixed 5+ bugs, and improved the reliability of core booking features.

PROJECTS

GymFlow: Gym Management SaaS Platform | Next.js, TypeScript, PostgreSQL, Supabase https://www.gymflow.sbs/

- Building a multi-module SaaS platform for gym owners including member management, attendance tracking, subscription billing, and business analytics dashboards.
- Implemented secure authentication with role-based access control (RBAC) to manage different user permission levels.
- Designing a scalable multi-tenant architecture to support future growth and onboarding of multiple gym clients.

LightBase: Open Source Backend Platform | TypeScript, PostgreSQL, REST APIs

- Building a self-hostable, open-source backend platform inspired by Supabase, providing authentication, database management, and API services out of the box.
- Focused on keeping the system lightweight and extensible with a clean architecture designed to support community contributions and future feature expansion.

Air Filter Prediction System | Python, Flask, TSMixer, Machine Learning

- Developed a machine learning system to predict AC air filter health using regression and classification pipelines built on the TSMixer architecture.
- Performed feature engineering, threshold tuning, and model optimization to improve prediction accuracy for predictive maintenance use cases.
- Deployed the system via Flask APIs to support real-time monitoring and industrial integration.