MADHUSOODHAN TG

DETAILS

PHONE
+1 (312) 825 - 9315

EMAIL
tgmadhusoodhan@gmail.com

LINKS

LinkedIn
Github
Portfolio

PROGRAMMING SKILLS

C++

Postgres

ReactJS

Python

Machine Learning

PyTorch

Pandas

Numpy

Keras

Tensorflow 2.0

Unreal Engine

Sci-Kit Learn

AI TOOLS

OpenAI API

Langgraph

Langchain

Github Copilot

LANGUAGES

Tamil

English

Hindi

PROFILE

Computer Science Master's student with a solid foundation in algorithms, systems design, and software engineering principles. Developed robust applications using Python and C++, with experience spanning intelligent automation, robotics, and IoT. Now aiming to build scalable and optimized, high-impact software that blends smart tech with efficient algorithms.

EMPLOYMENT HISTORY

Freelancer, UCAL R&D, Chennai   Dec 2024 - July 2025

- Developed an Android application that successfully monitored and **displayed real-time tire pressure data with 95% accuracy**, using sensor integration for precise detection.
- Implemented notification and alert features, **reducing the risk of tire-related issues by 40%** through proactive warnings for abnormal pressure levels and enhancing user satisfaction based on feedback surveys and unit testing.

INTERNSHIP

Research Intern, UCAL R&D, Chennai   Jul 2022 — Aug 2022

- Engineered a custom CDI system with direct fuel injection logic using C/C++ microcontroller programming, **enabling real-time ignition and fuel control for two-wheelers.**
- **Achieved a 60% improvement in mileage and 30% smoother ignition cycles**, contributing to cleaner combustion and enhanced engine performance.

EDUCATION

Masters in Computer Science, Illinois Institute of Technology, Chicago   Aug 2024 - May 2026
3.57 CGPA (on 4)

BTech. in Information Technology, Rajalakshmi Engineering College, Chennai   Nov 2020 - May 2024
7.9 CGPA (on 10)

PROJECTS

Money Man

- Developed and published a money manager app on the Google Play Store to help users effortlessly track expenses, manage income, and understand their spending habits through clean data visualizations.
- Engineered the app for **faster load times and minimal memory usage**, ensuring smooth performance **on over 92% of Android devices**.