Midhun G Kaimal

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Profile

Final-year B.Tech Computer Science and Engineering student with hands-on experience in projects related to Python, web development, and basic AI/ML. Comfortable working with tools like Flask, OpenCV. Interested in building useful software that creates a positive impact in areas like healthcare and public safety. Actively involved in IEEE activities with experience in team collaboration, communication, and taking initiative. Eager to grow in software development and AI roles.

Education

Sahrdaya College of Engineering and Technology   **Thrissur, Kerala**
B.Tech in Computer Science and Engineering   *2022 – 2026*

Skills

Languages:	Python, Java
Web Technologies:	HTML, CSS
Frameworks:	Flask
Database:	MySQL
Tools & Libraries:	Git, OpenCV
Soft Skills:	Leadership, Communication, Teamwork

Projects

Intolerant AI – Allergy Detection from Gel Electrophoresis Images
Developed an AI-powered model using **Machine Learning, Image Processing, and Deep Learning** techniques to analyze **gel electrophoresis images** for allergen detection. Used **Python, OpenCV** for classification, contributing to **AI in Healthcare**.

ThriftyEats – Food Waste Reduction Platform
Designed a full-stack web application connecting restaurants with NGOs for food donation. Included **real-time tracking, alerts, and volunteer coordination**. Built using **Python, Tkinter, MySQL**.

HealTrip – Mental Wellness Travel Web App
Developed a service-based platform using **Flask and SQLite** to connect users with mental wellness trips. Features: **authentication, session handling, and dynamic content**.

Detectly – AI-Based Missing Person Detection
Created a **deep learning system** using **OpenCV** to identify missing individuals in **CCTV footage**, integrating **real-time dashboards** for police assistance.

Certifications

Intel AI Certification: Intel Corporation – 2024
Prompt Engineering Essentials: Google Cloud Skills Boost – 2025

Experience

May 2025 – Present: **Membership Development Coordinator**, IEEE EMBS Kochi Subsection

Leading membership engagement initiatives, coordinating with student branches, and organizing outreach events to grow IEEE EMBS presence across the Kochi Subsection.

Awards & Recognition

IEEE IES SYP Congress 2024 – Travel Grant Recipient

Winner – TechX Infinia Hackathon (IEEE Sahrdaya SB)

Mini Project Prize – ThriftyEats, Sahrdaya CSE Dept