


Midhun G Kaimal

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Profile

Final-year B.Tech  Computer Science and Engineering student with hands-on experience in Python, web development, and basic AI/ML, using tools like Flask and OpenCV. Passionate about building impactful software in domains like healthcare and public safety. Actively involved in IEEE, with strong skills in teamwork, communication, and initiative, and eager to grow in software development and AI roles.

Leadership Experience

Membership Development Coordinator, IEEE EMBS Kochi Subsection 05/2025 – Present

Education

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

Skills

Languages

Python, Java

Web Technologies

HTML, CSS

Frameworks

Flask

Database

MySQL

Tools & Libraries

Git, OpenCV

Soft Skills

- Initiative-driven
- Clear communicator
- Collaborative mindset

Awards & Recognition

IEEE IES SYP Congress 2024 - Travel Grant Recipient

Winner - TechX Infinia Hackathon (IEEE Sahrdaya SB)

Projects

Intolerant AI – Allergy Detection from Gel Electrophoresis Images

Developed an AI-powered model using Machine Learning, Image Processing, and Deep Learning to analyze gel electrophoresis images for allergen detection in food samples. Implemented real-time monitoring for image extraction and classification using Python and OpenCV.

ThriftyEats - Food Waste Reduction Platform

Designed and developed a full-stack web application to connect restaurants with NGOs for the donation of leftover food. The project utilized Python, Tkinter, MySQL for efficient CRUD operations and seamless user interaction, addressing food waste management and NGO coordination.

HealTrip - Mental Wellness Travel Web App

Developed a service-based platform using Flask and SQLite that connects individuals seeking mental wellness with travel opportunities. Implemented user authentication, session handling, and dynamic content rendering. The platform emphasizes social impact through mental health awareness while integrating core principles of web development, form handling, and user experience design.

Certifications

Intel AI Certification

Intel Corporation - 202

Prompt Engineering Essentials

Google Cloud Skills Boost – 2025