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 foundational AI/ML tools such as Flask and OpenCV. Skilled in supporting development teams through testing, data handling, and creating user-focused documentation. Strong communication and coordination abilities, developed through active involvement in IEEE. Eager to contribute to innovative, scalable solutions while continuously enhancing technical and analytical skills.

Education

2022 – 2026	**B.Tech in Computer Science and Engineering,** *Sahrdaya College of Engineering and Technology*
	CGPA :8.18(Till date)
	Higher secondary education, *Carmel Hss*
	98.7%

Skills

Languages	**Web Technologies**	**Frameworks**
Python, Java	HTML, CSS	Flask
Database	**Tools & Libraries**	**Soft Skills**
MySQL	Git, OpenCV	Initiative-driven, Clear communicator, Collaborative mindset

Projects

Intolerant Al – 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, achieving over 85% accuracy across a dataset of 500+ images. Improved detection speed and reliability, enhancing food safety analysis.

ThriftyEats - Food Waste Reduction Platform
Designed and developed a full-stack web application using Python, Tkinter, and MySQL to connect restaurants with NGOs for leftover food donation. Enabled efficient CRUD operations and intuitive user interaction, facilitating coordination between 10+ restaurants and NGOs. The platform streamlined food donation workflows and reduced potential food waste.

HealTrip - Mental Wellness Travel Web App
Built a service-based platform using Flask and SQLite to connect individuals seeking mental wellness with curated travel opportunities. Implemented user authentication, session management, and dynamic content rendering.

Leadership Experience

05/2025 – Present	**Membership Development Coordinator,** *IEEE EMBS Kochi Subsection*
	Recently appointed to lead membership growth and engagement strategies across the IEEE EMBS Kochi Subsection, representing over 3+ student branches. Initiated planning of targeted outreach campaigns aimed at increasing student membership and strengthening inter-branch collaboration. Currently laying the foundation for measurable growth through strategic planning and stakeholder coordination.

Certifications

Intel Al Certification	**Prompt Engineering Essentials**	**Google AI Essentials**
Intel Corporation - 2024	Google	Google

Awards & Recognition

IEEE IES SYP Congress 2024 - Travel Grant Recipient

Winner - TechX Infinia Hackathon (IEEE Sahrdaya SB)