

Midhun G Kaimal

✉ midhungkaimal93@gmail.com ☎ 8129890170 📍 Thrissur, Kerala 🔗 [linkedin.com/in/midhungkaimal](https://www.linkedin.com/in/midhungkaimal)

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 , <i>Sahrdaya College of Engineering and Technology</i> CGPA :8.18(Till date)
	Higher secondary education , <i>Carmel Hss</i> 98.7%

Skills

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

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, achieving over 75% accuracy in allergen identification across a dataset of 500+ images.

ThriftyEats - Food Waste Reduction Platform
Designed and developed a full-stack web application using Python, Tkinter, and MySQL to connect restaurants with NGOs for donating leftover food. Enabled efficient CRUD operations and seamless user interaction, facilitating coordination between restaurants and NGOs. The platform helped reduce potential food waste by streamlining donation workflows and improving traceability in food distribution.

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.

Leadership Experience

05/2025 – Present	Membership Development Coordinator , <i>IEEE EMBS Kochi Subsection</i> 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.
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Certifications

Intel AI Certification Intel Corporation - 2024	Prompt Engineering Essentials Google	Google AI Essentials Google
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Awards & Recognition

IEEE IES SYP Congress 2024 - Travel Grant Recipient
Winner - TechX Infinia Hackathon (IEEE Sahrdaya SB)