

# Midhun G Kaimal

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## Profile

**Final-year B.tech Computer Science and Engineering student** with practical exposure to Python, web development, and foundational AI/ML tools like Flask and OpenCV. Passionate about contributing to meaningful projects in healthcare, accessibility, and public safety. Actively involved in IEEE with proven strengths in communication, coordination, and teamwork. Especially interested in support roles in software and AI teams—such as testing, documentation, data handling, or user interaction—where I can grow steadily while enhancing my technical skills.

## Education

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

## Skills

<b>Languages</b> Python, Java	<b>Web Technologies</b> HTML, CSS	<b>Frameworks</b> Flask
<b>Database</b> MySQL	<b>Tools &amp; Libraries</b> Git, OpenCV	<b>Soft Skills</b> 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.
- 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.

## Leadership Experience

05/2025 – Present	<b>Membership Development Coordinator, IEEE EMBS Kochi Subsection</b> Initiated planning of targeted outreach campaigns to increase awareness and drive new memberships among engineering students. Recently appointed to lead membership growth and engagement strategies across the EMBS Kochi Subsection, representing multiple IEEE Student Branches.
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## Certifications

<b>Intel AI Certification</b> Intel Corporation - 202	<b>Prompt Engineering Essentials</b> Google Cloud Skills Boost – 2025
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## Awards & Recognition

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