MALEESHA SHAVINDI

NO 243, NUGAWELA RD, MAHAHUNUPITIYA, NEGOMBO, SRI LANKA
+94 77 572 2625 | maleeshashavindi@gmail.com
LINKEDIN: http://www.linkedin.com/in/maleesha-shavindi
GITHUB: https://www.github.com/maleesha-shavindi

PROFESSIONAL SUMMARY

Hardworking individual with strong desire to gain experience in developing and maintaining web applications. Strong analytical and problem solving skills. Committed to applying best technology practices and innovative methods in creating software.

WORK HISTORY

TEACHING ASSISTANT (INFORMATION TECHNOLOGY)

Sri Lanka Institute of Information Technology | Malabe | June 2025 – Present

Academic Instructor at the Sri Lanka Institute of Information Technology (SLIIT), I support academic staff in delivering practical sessions. My responsibilities include assisting students with coursework and programming assignments, guiding them through software engineering concepts, and providing individual support during lab sessions. I am also involved in grading and facilitating project work.
In addition, I serve as a mentor for undergraduate research groups, offering guidance on research methodologies, technical implementation, and project documentation, helping students stay aligned with academic standards and deadlines.
Modules : Software Engineering, Human Computer Interaction, Cloud Computing

SOFTWARE ENGINEER INTERN

Sakdunu Holdings | Kaluthara, Sri Lanka | January 2024 - August 2025

Technologies used: Java, Python, JavaScript, React.js, Node.js, Firebase, Git, Figma

- Designed and developed responsive web interfaces using React.js, improving user interaction and accessibility across devices.
- Built and integrated backend APIs using Node.js to support real-time data processing and secure client-server communication.
- Collaborated with cross-functional teams to implement UI features directly from Figma designs.
- Implemented user authentication and authorization systems using Firebase Authentication, improving security and user management for the application.
- Conducted unit and integration testing to ensure code quality and functionality, identifying bugs early and reducing production issues.
- Participated in Agile ceremonies including sprint planning and reviews, actively contributing to team discussions and decision-making.

SKILLS

- Technical: Java, JavaScript, Python, HTML/CSS, React.js, Node.js, Flask, Spring Boot, Tailwind CSS, Material-UI, Fast API, Firebase, MongoDB, SQL, Git, VS Code, Visual Studio, Eclipse
- Libraries: pandas, NumPy, Matplotlib
- Development Practices: Agile methodologies, Coding standards adherence, Version control
- Soft Skills: Communication, Adaptability, Critical & Creative Thinking
- Additional: UI/UX Design (Figma), Basic Machine Learning, Debugging and Testing

EDUCATION

BSC (HONS) in Information Technology
Sri Lanka Institute of Information Technology
February 2021 - November 2024 | Second Upper Division | CGPA-3.15

- Awarded Certificate of Excellence for Year 3 Semester 2
- Awarded Certificate of Excellence for Year 4 Semester 2

GCE ADVANCED LEVEL Physical Science Stream
St Peters College (Branch of St Peters College Bambalapitiya) | Kurana | Negombo
August 2019 | English Medium

PROJECT HIGHLIGHTS

Automated Coconut Tissue Culture Monitoring System | 2024– Present

In response to the challenges Lunuwila Coconut Research Institute (CRI) identified, this research project introduces an innovative approach to manage critical issues in coconut tissue culture, in response to the challenges CRI identified; this research project introduces an innovative approach in managing critical issues of coconut tissue cultivation.
These issues include :

- Managing contamination
- Identifying leaf browning
- Enhancing abnormality detection
- Implementing a data management and analysis system
- A fully automated system with the involvement of an IoT device

• Tech Stack | React, Python, Fast API, Firebase, IoT

IoT Based Wearable Health Monitoring System | 2024

Designed a wearable IoT device for patients with walking disabilities, featuring accurate step count, fall detection with emergency alerts and real time data visualization using web dashboard.
To provide caregivers and healthcare professionals with actionable insights, a responsive **web-based dashboard** was built for **real-time data visualization**, enabling continuous remote monitoring and historical trend analysis.
Key Features:

- Step counter optimized for walking irregularities
- Intelligent fall detection algorithm with automatic emergency alerts
- Seamless communication using MQTT protocol for low-latency data transmission
- Scalable cloud-based message broker integration via HiveMQ
- Real-time data analytics and user interface built with React

• Tech Stack | React (Web Dashboard), C++ (Device Firmware), MQTT (Communication Protocol), HiveMQ (Broker Platform)

Innovation Management Web Application | 2023
Developed a web-based platform that empowers a community of users to collaborate, share ideas, and find effective solutions for their innovations. The system enables users to post their innovation challenges and receive feedback, suggestions, or partnership opportunities from other community members.
• *Tech Stack | React (Frontend), MongoDB (Database), Express & Node (Backend)*

Social Media Platform for Food Blogging | 2023
Designed and developed a **web-based social media platform** that allows users to create, publish, and manage blog posts. The platform fosters user engagement through a personalized feed, post interactions, and a smooth content creation experience.
• *Tech Stack | React (Frontend), Spring Boot (Backend), MySQL (Database)*

Note taking Mobile Application | 2022
A mobile application that lets the users to take notes whenever they can by uploading photos, managing notes, adding lists, and managing specific questionnaires to the note.
• *Tech Stack | Java, MySQL, Android Studio*

CERTIFICATIONS AND LICENSES

AWS Academy Graduate - AWS Academy Cloud Foundations

PUBLICATIONS

Sri Lanka Institute of Information Technology — ICAC 2024
• Effectiveness of Deep Learning and IoT for Disease Classification and Characterizing Tissue Culture Calli.