PABODHA MALLAWA

IT UNDERGRADUATE

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ABOUT ME

As a dedicated and self motivated undergraduate in Information Technology,I excel in multitasking,logical problem solving, and leadership, always approaching my work with accountability and a strong sense of responsibility. With experience in project management, I have worked in mobile app development and AI, seamlessly blending technical expertise with strategic planning to create impactful solutions. I thrive both independently and within teams, adapting swiftly to new challenges while continuously expanding my knowledge. My passion for learning and experimenting with emerging technologies keeps me at the forefront of the ever-evolving IT landscape. I look forward to leveraging my skills and expertise to contribute meaningfully to your esteemed company.

EDUCATION

BSc in Information Technology   **Jun 2021 - Present**
 Rajarata University of Sri Lanka

Panadura Balika   **St. John's (pvt) Girls' School,Panadura**
 GCE A/L: Physical Sciences Stream   Primary School
Secondary School

TECHNICAL SKILLS

Programming & Development
- Languages: C, C++ Python, Java, HTML, CSS, JavaScript, Dart
- Frameworks & Tools: Flutter, React Native, Spring Boot, Flask
- Databases: Firebase, MySQL

Image Processing & Computer Vision
- Preprocessing,Filtering,Feature Extraction, Augmentation
- Libraries & Tools: OpenCV, TensorFlow, PyTorch, Keras

Project Management & Leadership
- Methodologies: Agile & Scrum
- Collaboration & Tools: Jira, Trello, GitHub

Artificial Intelligence & Machine Learning
- Deep Learning: CNN, U-Net (Medical Image Segmentation)
- Model Training & Optimization

Software Testing & Automation
- Testing Frameworks: Selenium (Automation Testing)
- Development Tools & IDEs: Eclipse, VS Code

SOFT SKILLS

Leadership	Collaboration	Creativity
Communication	Time Management	Innovation
Problem-Solving	Critical Thinking	Adaptability

LANGUAGES

Sinhala	English	Tamil (Elementary)

PROJECTS

Final Year Undergraduate Research   Oct 2023- Feb 2025

DIABETIC FOOT ULCER MONITORING AND HEALING TRACKER   **Project Lead**

- Developed a DL-based two models for wound segmentation and classification.
- Designed a thermal scanner with an IR sensor to capture wound temperature variations.
- Built a mobile app for real-time wound analysis, visualization, and tracking,
- integrated with the AI models.   Technologies : React Native, Flask, CNN, U-Net, IOT(Arduino)

VOICES FOR STRAYS (Software Solution)   **Project Lead**

- "Voices for Strays", a UI designed to overcome the challenges and concerns faced by individuals in Sri Lanka when interacting with or caring for stray animals.
- A polished, high-fidelity prototype and Usability Testing
        Technologies : Figma, Maze

TREE CLASSIFIER (AI and Deep Learning)   **Project Lead**

- Developing a deep learning-based approach to categorize three tree species—Tamarind, Kaha Mara, and Ipil Ipil on the university premises
        Technologies : Python, Tensorflow, CNN

BUDGET TRAVELER (Mobile App)

- business idea for entrepreneurship that blends technology and practical utility.
- Developed an AI-powered travel assistant app to help travelers efficiently plan, track, and optimize their spending during trips.
        Technologies : Flutter (Frontend), Adobe Illustrator

4 Way Intersection Traffic Light System

- Simulate real-world traffic flow and optimize signal control at key intersections (Maradana, Dematagoda, Nugegoda, and Rajagiriya)
        Technologies : C/Embedded C, Ardunio, Proteus (for hardware and circuit simulation)

Automating Login Functionality for SWAG LABS

- Develop an automation script to validate the login functionality of Swag Labs.
        Technologies : Selenium Web driver, Java

MEMORANDUM Mobile Application

- For note-taking, to-do lists, and task management
        Technologies & Frameworks : Android Studio, Java, Kotlin, XML, Firebase

ALL IN ONE (Simple website)

- A one-stop solution combining textile and technology.
- This marks the first step in my coding journey.
        Technologies : HTML,CSS, JavaScript, PHP, MySQL, Figma

ACHIEVEMENTS

Project- Deep Learning Based Diabetic Foot Ulcer Monitoring and Healing Tracker	**Project Lead**
8th Place in the Top 10 Best Research Projects at Rajarata University of Sri Lanka	Jan 2025
INSL 2023 ǀ IDEA STAGE ǀ FINALISTS (ISLAND-WIDE)	Feb 2024
INSL 2023ǀ PROVINCIAL COMPETITION ǀ NORTH CENTRAL PROVINCE	Jan 2024

EXTRACURRICULAR ACTIVITIES

Quiz Competitions
> Inter Grade Quiz Competition- Winners (2016)

Aesthetic Competitions
> English Singing Competition - Winners(2011,2012) Panadura Division & Kalutara Zone
> English Drama Competition - Winners(2012) Kalutara Zone

Leadership
> Project Manager (2023 - Present at University)
> President of the Science Society (2012 - 2014 at Secondary School)
> Secretary of the English Society (2012)
> Former Prefect at the Dhamma School

Volunteering
> Former Teacher at Sri Somarama Dhamma School, Kalutara (2019 - 2021)

Other
> Member, Association of Rajarata ICT | ARICT (2021 - Present)

NON-RELATED REFERENCES

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