



HIRUNIKA SAMARAKOON

FINAL YEAR INFORMATION TECHNOLOGY UNDERGRADUATE

CONTACT

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SKILLS

- Project Management
- Problem Solving
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

TECHNICAL SKILLS

Programming Languages

- C
- C++(OOP Concepts)
- Python
- Java (Beginner)

Web Development

- HTML
- CSS
- PHP

Database

- MySQL
- Firebase



PROFILE

Enthusiastic QA intern with hands-on experience in manual testing for AI and mobile applications. Skilled in executing test cases and API testing using Postman. Familiar with Selenium and basic automation concepts. Detail-oriented, eager to learn, and ready to apply QA skills in a real-world setting.



EDUCATION

Bsc.Information Technology(Reading) 2021- ongoing
Faculty of Applied Sciences\Rajarata University of Sri Lanka

Diploma In Software Engineering 2020-2021
GPA: 3.66 / 4.0
National Institute of Business Management Kandy

G.C.E. Advanced Level Examination 2019
Com. Maths |Physics| Information Technology

PROJECTS

Deep Learning based Coral Reef Classification and Assessing Algae Coverage on Coral |
github.com/mindBenders5/first_implementation.git

- Led a final-year project team, overseeing research, design, and integration efforts.
- Developed a U-Net-based segmentation model to classify coral reefs and assess algae coverage with 85% IoU.
- Integrated a YOLO-based model to detect and label five target underwater species in real-time video footage.
- Implemented a user-friendly mobile application enabling user registration (general/researcher), image/video uploads, and dataset requests.
- Achieved recognition as one of the top 10 projects among 34 teams at the university.

Publication on IEEE Xplore "Automated Algae Detection and Quantification on Coral Reefs Using U-Net Segmentation Model"
• 10.1109/SLAAI-ICAI63667.2024.10844984

Student Management System

- Developed a Student Marks Management application using C++ OOP principles .
- Automated Grade calculation and GPA generation, intuitive CRUD operations to manage student data.

Other

- ML Frameworks(NumPy, Pandas, scikit-learn, TensorFlow, PyTorch)
- Flask backend
- Selenium(Beginner)
- Agile and SCRUM Methodologies
- Flutter(Basic)
- Git

LANGUAGES

- English
- Sinhala
- Tamil(Basic)

REFERENCES

Dr. K. A. S. H. Kulathilake
Senior Lecturer GRII

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Personalized Note App

- Built an Android Studio-based Note App with Firebase
- Implemented user authentication (registration and login) for secure access control. •
- Designed CRUD functionality (create, read, update, delete) for efficient note management.

CERTIFICATIONS

- Programming Foundations: Software Testing/QA |Linkedin 2024
- Online Learning Programme in Python for Beginners Distance Learning Centre, University of Moratuwa 2022
- Upper Intermediate English Language Course | British Council Kandy

VOLUNTERING

- Generation Alpha - Member
- IEEE Rajarata University Branch , Committee Member
- Zero Plastic Rajarata University Branch , Committee Member
- Women in FOSS Rajarata University , Committee Member