

Maduvantha Edirisooriya

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View my personal portfolio, where I showcase projects related to Flutter, IoT, and Blockchain development

ABOUT ME

Final-year undergraduate student in the Department of Information Communication Technology at the Faculty of Technology, Rajarata University of Sri Lanka. Open to internships, with a strong foundation in Flutter for mobile app development, IoT solutions, and Blockchain technologies. Experienced in smart contracts, decentralized applications, and embedded systems. Passionate about building innovative solutions with emerging technologies

EDUCATION

BICT (Honors) in Information Communication Technology Rajarata University of Sri Lanka	Jul 2021 - Present
G.C.E. Advanced Level Technology Stream St Sylvester's college Kandy	2017 - 2019

CERTIFICATE & ACHIEVEMENTS

Introduction to DevOps Tools	Jan 2025
Git & GitHub Bootcamp in 2025: The Complete-Practical Guide	Mar 2025
Huawei Cloud Competition 2022 (Asia-Pacific Region) Advanced to the 2nd round, where only the top 50 participants were chosen across the Asia-Pacific region. Proposed an NFT-based social media platform leveraging blockchain technology content sharing.	

RESEARCH AND PROJECTS

Ongoing Research: Evaluating Blockchain Technologies for Medical Data Management	Jan 2025- Present
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Researched blockchain technologies (Hyperledger Fabric, Ethereum, Corda) for secure medical data management, developing an evaluation framework for security, scalability, interoperability, and compliance while implementing test networks and smart contracts.

Third-Year Project: Intelligent Indoor/Outdoor Surveillance Camera with AI Detection and Programmable Relay Control	Jan 2025
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Flutter, Python, Arduino, YOLO v11 Ai model, Firebase, Open-cv
Integrated YOLOv4-based AI object detection, cloud technology, and a Flutter mobile app in a Client-Server architecture with ESP32-CAM for real-time surveillance and remote monitoring.

Second-Year Project: ScootRUSL – University Scooter Rental System	Oct 2024
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Flutter, Arduino, Firebase, GPS Module, Arduino-based Locking System, Google Maps API
Developed a Flutter-based scooter booking app with real-time tracking, automated locking, geo-fencing, and a fine system, using Firebase, Cloud Firestore, and Google Maps API

EXTRU 2025 Invention Exhibition Website	Jan 2025
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HTML, CSS, JavaScript, GSAP, Locomotive Scroll, Bootstrap, Tailwind, AOS
Developed a responsive and interactive website for the EXTRU 2025 Invention Exhibition at the Faculty of Technology, Rajarata University of Sri Lanka, featuring dynamic project showcases, event schedules, and live updates.

Flutter-Based Movie Streaming App

Feb 2024

Flutter, Dart, Bunny.net

Developed a movie and TV streaming app with video quality selection and a custom mini player, integrating Bunny.net for high-quality streaming and displaying episode lists. Implemented content filtering by genre and release date using Flutter, Dart, and Provider/Bloc for state management.

Ongoing Project: Blockchain-Based Traceability System for Cinnamon Cultivation and Harvest Monitoring/Tracking

Oct 2024- Present

Hyperledger Fabric, Google Cloud Platform (GCP), blockchain-based traceability, geospatial mapping, data analytics.

Developed a blockchain-based traceability system using Hyperledger Fabric and GCP to ensure transparency, sustainability, and traceability of cinnamon products, enabling stakeholder registration, product lifecycle tracking, geospatial mapping, and GAP compliance monitoring.

First- year project: Project - Interactive UI with Parallax Scrolling & Dark Mode

Des 2023

HTML, CSS, JavaScript, Parallax Scrolling (CSS & JS)

Developed an interactive UI with parallax scrolling and a dark mode toggle to enhance user experience. The project includes a login system for authentication and a responsive design. Built using HTML, CSS, and JavaScript, showcasing skills in front-end development and dynamic user interfaces.

First-year Project: COVID-19 Monitoring System – C-Based Emergency

Oct 2022

Response Tool

C Programming, File Handling, User Authentication

Developed a mini hospital management system in C to monitor COVID-19 cases and streamline emergency responses. The system includes secure authentication for doctors and nurses, patient profile management, ICU admission features, and automated tracking of hospital resources like oxygen levels and ambulance availability.

Demonstrates strong skills in C programming, file handling, and real-world system simulation.

SKILLS

Mobile App Development: Flutter (Dart), Firebase, REST APIs

IoT & Embedded Systems: Arduino, IoT Protocols, Cloud

Blockchain: Solidity, Smart Contracts, Hyperledger Fabric, IPFS, DApps

Cloud Platforms: Google Cloud (GCP), Huawei Cloud, Firebase

Programming Languages: Dart, Python, JavaScript, Go, Solidity, Java

EXTRA-CURRICULAR ACTIVITIES

Member of Association of Technology IT (ATIT)

2024 - Present

Rajarata University of Sri Lanka

Designer - Robotic Society of Technology (ROST)

2024 - 2025

Rajarata University of Sri Lanka

Videography Head - Official media unit of the Faculty of Technology (FOT Media)

2024 - 2025

Rajarata University of Sri Lanka

REFERENCES

Mr. Husni Mohamed

Lecturer

Department of Information Communication Technology,

Faculty of Technology,

Rajarata University of Sri Lanka

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