

www.maduvantha.me

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 Jul 2021 - Present

Rajarata University of Sri Lanka

G.C.E. Advanced Level | Technology Stream 2017 - 2019

St Sylvester's college Kandy

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

Jan 2025- Present Links-[[Codata Health - Advanced Blockchain](#) , [Blockchain Network Command Center](#)]

Ongoing Research: Evaluating Blockchain Technologies for Medical Data Management

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.\

Jun 2025 Links- [[www.crickgd.live](#) , [www.app.crickgd.live](#)]

Live Cricket App – Flutter, Firebase RTDB, GitHub Actions

Built a Flutter streaming app backed by a Private API on Node/Express and Firebase Realtime Database; GitHub Actions auto-generates/rotates HLS links and publishes to the app for low-latency live, highlights, and VOD. End-to-end Flutter streaming app with Private API, Firebase RTDB data sync, and automated link refresh via GitHub Actions; supports HLS/DASH, auth, AdMob, push, and analytics.

SLT Vehicle Hire Automation System (Ongoing)

A large-scale enterprise system developed for **Sri Lanka Telecom (SLT)** to automate vehicle hire operations. Includes **25+ backend APIs** for multi-role user management, cost center operations,

attendance tracking, and a **dynamic rate card engine** with fuel logic.

Currently in the **final authentication and hosting stage**, integrating into SLT's production environment.

Jun 2025

Links- [[samaraEdirisooriya/Mobile-App-for-Rusl-Ai-cam](#)]

Third-Year Project: Intelligent Indoor/Outdoor Surveillance Camera with AI Detection and Programmable Relay Control

Flutter, Python, Arduino, YOLO v11 Ai model, Firebase, Open-cv Jan 2025 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.

Oct 2024

Link- [[samaraEdirisooriya/Scoot-RUSL-Scooter-Management-System](#)]

Second-Year Project: ScootRUSL – University Scooter Rental System

Flutter, Arduino, Firebase, GPS Module, Arduino-based Locking System, Google Maps API Oct 2024 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

Jan 2025

Link- [[Extru](#)]

EXTRU 2025 Invention Exhibition Website

HTML, CSS, JavaScript, GSAP, Locomotive Scroll, Bootstrap, Tailwind, AOS Jan 2025 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.

Feb 2024

Link- [[samaraEdirisooriya/Movie-Streeming-App](#)]

Flutter-Based Movie Streaming App

Flutter, Dart, Bunny.net Feb 2024 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.

Feb 2023

Link- [[Web](#)]

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

HTML, CSS, JavaScript, Parallax Scrolling (CSS & JS) Des 2023 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.

Feb 2023

Link- [[samaraEdirisooriya/Covid19-Management-System-c](#)]

First-year Project: COVID-19 Monitoring System

C-Based Emergency Response Tool C Programming, File Handling, User Authentication Oct 2022 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.

Video Editing Skills

Experienced in **Adobe After Effects**, **Premiere Pro**, and **CapCut** for cinematic editing, UI reels, and storytelling. Produced multiple **documentary-style videos** showcasing real-world projects and university events.

[<https://youtu.be/oelzaisLgeE?si=9tmx5yF2C-OAQFEd>],

[https://youtube.com/shorts/njjUwGpfrpE?si=n74tc23hV_HhhRVg],

[https://www.youtube.com/embed/QkFtJauyU1g?si=XEDYfbCMXdCx_ySA]

SKILLS

Mobile App Development: Flutter (Dart), Firebase, REST APIs
Video Editing: After Effect, Primer pro, Cap Cut
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) Rajarata University of Sri Lanka
Designer - Robotic Society of Technology (ROST) Rajarata University of Sri Lanka 2024 - Present
2024 - 2025 Videography Head - Official media unit of the Faculty of Technology (FOT Media)
Rajarata University of Sri Lanka 2024 - 2025

REFERENCES

Mr. Husni Mohamed Lecturer
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