

Ruwantha Madhushan

Electronics & Computer Science undergraduate



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📅 2000/04/26

🎓 EDUCATION

Bachelor of Science Honours in Electronics and Computer Science

Department of Physics and Electronics,
University of Kelaniya

present | Kelaniya, Sri Lanka

Diploma in English Language

British Way English Academy

2021 | Kalutara, Sri Lanka

Result-Merit Pass

G.C.E-Advanced Level

Horana Royal College

2020 | Horana, Sri Lanka

Combined Mathematics B

Information and Communication Technology A

Physics C

G.C.E-Ordinary Level

KL/Haltota Kanishta Vidyalaya

2016 | Horana, Sri Lanka

Result- A7 & B1 & C3

👤 PROFILE

I am a passionate Software Engineer with hands-on experience in web, mobile, and backend development. Skilled in multiple programming languages, frameworks, and database technologies, I specialize in building scalable applications with Spring Boot, React, React Native, Flutter, Java (OOP, Swing), and SQL/NoSQL databases. I have developed various projects, including a Banking Management System (Java), a cross-platform Music Playlist App (Flutter & FastAPI), and a Flood Detection & Emergency Assistance App (React Native & Firebase). I am also experienced in version control (GitHub) and 3D game development (Unreal Engine, Blender).

🧠 KNOWLEDGE AREAS

Programming:

- Java (OOP, Java Swing), C, C++, Python, JavaScript, PHP

Web & Mobile Development:

- React, React Native, Flutter, HTML, CSS, FastAPI, Spring Boot

Databases & Backend:

- MySQL, MongoDB, PostgreSQL

Version Control & Tools:

- GitHub

Game & 3D Development:

- Unreal Engine 5, Blender

Others

- Figma, Docker

👤 VOLUNTEERING

LANGUAGES

Sinhalese ● ● ● ● ●

English ● ● ● ● ●

EXTRACURRICULAR ACTIVITIES

Member

Electronics and Computer Science Club
09/2023 – present | University of Kelaniya

Member

Electronics Students' Society
09/2022 – present | University of Kelaniya

ACHIEVEMENTS

PROJECTS

Soundly – Music Playlist App

present

Developed a cross-platform music playlist app using Flutter and FastAPI for backend services. Includes features such as user authentication, playlist customization, song discovery, and interactive player design.

- Tools: Flutter, FastAPI, GitHub

Get Safe – Flood Detection & Emergency Assistance App

present

Developed a flood detection system and emergency assistance app, integrating React Native for mobile development and Firebase for the backend. Key features include emergency services, real-time flood alerts, and interactive map features.

- Tools: React Native, Firebase, GitHub

Unreal Engine Project Showcase

Developed a fully explorable environment featuring dynamic character interactions and a drivable car, with a focus on realistic lighting, materials, and physics.

- Tools: Unreal Engine 5, Blueprints

Banking Management System (Java)

A banking system created with Java and Java Swing, focusing on secure user login, account management, and transactions.

- Tools: Java (OOP, Java Swing), GitHub

Blender 3D Environment Design Project

Created a miniature, vibrant environment with realistic urban buildings, detailed vehicles, natural elements like trees and rocks, a flowing water body, and a functional windmill and tunnel. Focused on 3D modeling, texturing, and scene composition.

- Tools: Blender

Heart Disease Risk Assessment System

Developed a web-based app to predict heart disease risk using machine learning algorithms (Random Forest, Logistic Regression, SVM) and Flask for real-time predictions.

- Tools: Flask, Git, Python, HTML/CSS

Tech Gadget Store

Created a responsive e-commerce web application using HTML, CSS, and JavaScript, showcasing skills in frontend development and user-friendly design.

- Tools: JavaScript, HTML, CSS, Git, GitHub