

DILUSHAN RAVIHARA

Software Engineering | Web development | Full-Stack Developer | IoT & Backend Developer

dilushanravihara@gmail.com | +94 77 361 0194 | Sri Lanka | GitHub: <https://github.com/Dilushan-Ravihara> | LinkedIn: <https://www.linkedin.com/in/dilushan-ravihara-598316335/> | portfolio: <https://dilushanravihara.netlify.app/>

PROFILE

Currently pursuing a Higher National Diploma in Information Technology (HNDIT), seeking an internship opportunity to apply and enhance technical skills in software development, web development full-stack systems, and IoT-based applications. Strong problem-solving ability with hands-on experience in real-world academic and enterprise-level projects.

EDUCATION

Higher National Diploma in Information Technology (HNDIT)

Sri Lanka Institute of Advanced Technological Education (SLIATE) • Aug 2024 – Present

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Database Management Systems, Web Development, Software Engineering, System Analysis & Design, Computer Networking, Software Testing, Human-Computer Interaction.

G.C.E. Advanced Level (Technology Stream) — 2022

Ruwanwella Rajasinghe Central College

G.C.E. Ordinary Level — 2019

Kalyani Maha Vidyalaya

PERSONAL PROJECTS

Secure Assets — EDR Monitoring System

React, Node.js, Socket.io, PostgreSQL, Python, Tailwind CSS

- Designed and built an enterprise-style Endpoint Detection & Response (EDR) system for real-time device monitoring and threat detection
- Wrote a Python agent to collect live system telemetry (CPU, RAM, OS, network activity) from monitored endpoints
- Built a 0–100% risk-scoring engine that flags devices based on security compliance rules
- Implemented real-time alert and data streaming using Socket.io (web Sockets), removing the need for manual refresh/polling
- Added a remote admin control module supporting shutdown, reboot and update execution across managed devices

Smart Attendance System (IoT + Biometrics)

ESP32, PHP, MySQL, JavaScript, Chart.js

- Built a fingerprint-based attendance system integrating an ESP32 microcontroller with an AS608 biometric sensor
- Implemented real-time biometric authentication over a custom HTTP API between device and server
- Designed a role-based access system supporting Admin, Lecturer and Student views
- Built an analytics dashboard with attendance trends and Chart.js visualizations
- Added CSV/Excel export for institutional reporting

PowerZone.lk — E-Commerce Platform

PHP, MySQL, JavaScript, HTML, CSS

- Built a full-stack e-commerce platform for an electronics retailer, covering catalogue, cart and checkout flows
- Developed product management and order-tracking modules for store admins
- Implemented advanced search and multi-attribute filtering for the product catalogue
- Designed a modern glassmorphism-style UI for both customer storefront and admin dashboard

Personal Finance Tracker API

PHP (OOP), MySQL, REST API

- Developed a REST API for tracking income, expenses, and budgets, built with an OOP architecture

- Implemented a savings-goal management module with progress tracking
- Built a budget-alert system that flags overspending against user-defined limits
- Designed a normalized database schema with secure, transaction-safe data handling

TECHNICAL SKILLS

Languages: Java, C#, Python, JavaScript, PHP, SQL, HTML5, CSS3

Frontend: React.js, Bootstrap, Responsive Web Design, AJAX

Backend: Node.js, ASP.NET Blazor, PHP, REST APIs

Databases: MySQL, MariaDB, Microsoft SQL Server

Tools: Git, GitHub, Visual Studio Code, Visual Studio, NetBeans, XAMPP, Postman

Concepts: OOP, MVC Architecture, CRUD Operations, API Development

SOFT SKILLS

- Problem Solving — designed the risk-scoring logic for the EDR monitoring system
- Team Collaboration — coordinated frontend/backend integration across multi-module projects
- Communication — documented API endpoints and system architecture for each project
- Time Management — delivered four independent full-stack projects alongside HNDIT coursework
- Quick Learning — picked up ESP32 hardware integration and Socket.io from scratch
- Leadership — took ownership of end-to-end design and delivery on all personal projects