

Rukshan Ekanayake

Undergraduate Software Engineer

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WordPress: <http://rukshan58.wordpress.com/>

Portfolio: <https://rukshan-portfolio-wheat.vercel.app/>

Profile Summary

Motivated and detail-oriented BSc (Hons) Software Engineering undergraduate at the Sri Lanka Institute of Information Technology (SLIIT), with a strong foundation in software development principles and hands-on experience in full-stack development. Actively seeking an IT-related internship to gain industry exposure and contribute to innovative projects. Passionate about continuous learning and aiming to become a skilled IT professional.

Core Competencies

- React.js
 - Next.js
 - Spring Boot
 - Node.js, Express, Next.js
 - Tailwind CSS
 - Framer Motion
 - JavaScript, TypeScript
 - MySQL
 - MongoDB
 - Neon
 - REST APIs
 - Open Router
 - Vapi AI
 - Assembly AI
 - Git
 - Clerk API
 - Clerk Billing
 - JWT, Authentication
 - AI & ML
 - Shadcn UI
 - Agile, Jira
 - UI/UX, Figma
 - HTML CSS, PHP
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Education

BSc (Hons) Software Engineering - 2023 to Present
Sri Lanka Institute of Information Technology (SLIIT)

GCE A/L (Biology Science Stream) - Successfully Completed
Mahanama College, Colombo 03

Certificates

AI/ML Engineer - Stage 2
Sri Lanka Institute of Information Technology (SLIIT)
Credential ID: 89gd31dev0

Dec 2025

MongoDB Atlas Administrator Path MongoDB Credential ID: MDB7s8fzstul4	Oct 2025
Power BI for Beginners Microsoft Credential ID: 8868986	Aug 2025
Agile Scrum Master Simplilearn Credential ID: 8663098	Jul 2025
Prompt Engineering Application for Beginners Simplilearn Credential ID: 8620036	Jul 2025
AI/ML Engineer – Stage 1 Sri Lanka Institute of Information Technology (SLIIT) Credential ID: e6cxyfxbvj	July 2025

Projects

Medical AI Voice Agent

Developed a full-stack AI-powered medical voice assistant allowing users to interact with AI doctor agents, manage medical sessions, and access personalized dashboards. • Features include voice-based interactions, session history, AI-driven medical consultations, secure authentication, subscription-based billing, and real-time voice input/output. • Technologies: Next.js (App Router), Tailwind CSS, PostgreSQL (Neon/Drizzle), React Server & Client Components, Clerk Authentication, Billing, Open Router, Assembly AI, Vapi AI.

Repository: <https://github.com/Yrukshan/Medical-AI-Voice-Agent>

FinTrack AI - AI-Powered Expense Tracker

Built a modern full-stack expense tracking web application with AI-driven categorization, real-time analytics, and personalized financial insights. • Implemented smart expense classification using AI, interactive analytics dashboard, and real-time visualizations with Chart.js. • Integrated secure authentication (Google, GitHub, Facebook, Email) using Clerk and serverless PostgreSQL database using Neon with Prisma ORM. • Features include expense CRUD operations, search and filtering, light/dark mode, responsive UI, and AI-powered financial insights with confidence scores.

Technologies: Next.js, React, TypeScript, Tailwind CSS, Chart.js, Neon PostgreSQL, Prisma, Clerk, Open Router AI, Vercel.

Repository: <https://github.com/Yrukshan/next-fin-track-ai>

BuildSafe - AI-Based Infrastructure Risk Assessment App

Developed an AI-powered mobile application for pre-construction infrastructure risk assessment to reduce site accidents and improve safety decision-making. • Implemented offline-capable digital assessment forms with automatic GPS capture covering 7+ structural parameters across two infrastructure types. • Built a compliance scoring engine aligned with IBC, NFPA, and AASHTO-LRFD standards using a 0–100 risk scale with three severity tiers. • Designed a risk scoring module that integrates real-time weather data with structural compliance results and an AI recommendation engine using Gemini to provide actionable mitigation strategies.

Technologies: React Native, Node.js, Express.js, MongoDB, AsyncStorage, GPS Services, Open Weather API, Gemini API.

Repository: <https://github.com/Yrukshan/BuildSafe-App>

Silk & Shine - Salon Management System

Built a full-stack web application to digitize salon operations with role-based access, online appointments, staff and service management, and financial tracking.

Technologies: React.js, Spring Boot, MySQL, JIRA, GitHub, Postman.

Repository: <https://github.com/Yrukshan/Silk-Shine-Salon-Management-System>

HealthCare Management System

Developed a full-stack web application for managing patients, staff, and medical records with secure authentication, CRUD operations. Implemented RESTful APIs, data validation, and JUnit testing with Mockito.

Technologies: React, Java Spring Boot, MySQL, JUnit, Maven, GitHub.

Repository: <https://github.com/Yrukshan/HealthCare-Management-System-Manage-Patients-Records-Treatment-Plans->

AgroVista - Agricultural Marketplace System

Developed a MERN-based digital agricultural marketplace connecting farmers, dealers, and buyers with real-time product listings, inventory and order management. Implemented role-based user management.

Technologies: MongoDB, Express.js, React.js, Node.js, Postman, GitHub.

Repository: <https://github.com/uvindu827/AgroVista>

biteCloud — Food Order System

Developed a Java web-based food ordering system with full CRUD functionality for managing food items, orders, customers, sellers, and admin operations.

Technologies: Java (JSP/Servlets), JDBC, MySQL, HTML, CSS, JavaScript.

Repository: <https://github.com/Yrukshan/Food-Order-System-JAVA-PROJECT-WEB-SITE->