Rukshan Ekanayake

Undergraduate Software Engineer

Kaduwela, Colombo, Sri Lanka | +94 76 762 4847 | yrukshan345@gmail.com

GitHub: https://github.com/Yrukshan
LinkedIn: www.linkedin.com/in/rukshan-ekanayake-963b5a35b
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

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   Dec 2025
Sri Lanka Institute of Information Technology (SLIIT)
Credential ID: 89gd31dev0

MongoDB Atlas Administrator Path   Oct 2025
MongoDB
Credential ID: MDB7s8fzstul4

Power BI for Beginners   Aug 2025
Microsoft
Credential ID: 8868986

Agile Scrum Master   Jul 2025
Simplilearn
Credential ID: 8663098

Prompt Engineering Application for Beginners   Jul 2025
Simplilearn
Credential ID: 8620036

AI/ML Engineer – Stage 1   July 2025
Sri Lanka Institute of Information Technology (SLIIT)
Credential ID: e6cxyfxbvj

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-