

Nuwani Fonseka

Software Engineering Undergraduate

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About Me

I am a detail-oriented and adaptable individual passionate about developing impactful digital solutions. I take initiative in dynamic environments, and continuously strive to deliver high-quality results while quickly learning and adapting to new technologies.

Technical Skills

Frontend Development: React (MERN Stack), HTML, CSS, Tailwind CSS, Vite, WordPress, Shopify

Backend Development: Node.js, Express.js, Java, Python, Kotlin

Databases & Cloud: MongoDB, MySQL, SQLite, Firebase

Testing & DevOps: JUnit, Selenium, Docker, Kubernetes

Tools & Version Control: Visual Studio Code, Visual Studio, Android Studio, GitHub

Work Experience

Kode Tech (Pvt) Ltd

Software Engineer Intern

Sri Lanka (Full time - Hybrid)

Jul 2024–Feb 2025

- Contributed to **11+ client projects** ranging from e-commerce platforms to banking chatbots, gaining comprehensive full-stack development experience across diverse industries
- **Backend Development:** Developed user management systems using Node.js and Laravel, implemented CRUD operations, and performed critical database migrations between PostgreSQL and MySQL for optimal performance
- **Frontend Development:** Developed responsive web interfaces using HTML, CSS, and JavaScript across multiple platforms including WordPress, Shopify, and custom applications, enhancing user experience and functionality
- **Quality Assurance:** Recognized for good attention to detail and promoted to QA responsibilities; conducted functional, UI/UX, and performance testing ensuring software reliability before deployment.
- **Cross-Platform Development:** Worked on diverse technology stacks including WordPress, Shopify e-commerce (Sathara), and custom web applications (NIOASH, Selan Motorshow), demonstrating adaptability across platforms
- **Database Management:** Successfully migrated DFCC Bank's multi-channel chatbot database from SQL to PostgreSQL and back.

Projects

Enterprise Application Development Project

EV Charging Station Booking System (Group Project)

SLIIT

Jul–Oct 2025

- Designed and developed the **Charging Station Management** and **Backoffice Dashboard** modules of a full-stack EV Charging Station Booking System integrating web, mobile, and backend services.
- Implemented dynamic **slot availability logic** with real-time recalculation of bookings, cancellations, and completions, ensuring synchronized updates across all user roles.
- Built responsive React.js + Tailwind CSS interfaces for station creation, operator assignment, availability visualization, and booking management.
- Developed secure RESTful APIs in **ASP.NET Core Web API** to manage stations, bookings, and operator-linked data with JWT authentication and validation rules.
- Enhanced the Android Operator Module to manage daily bookings, confirm or cancel sessions, and synchronize data with local SQLite caching.
- **Technologies:** React.js, Tailwind CSS, ASP.NET Core (C#), MongoDB, SQLite, Android (Kotlin), JWT, Docker
- **Live Demo:** ev-station-booking-system-web.vercel.app
Backoffice Login: Backoffice1@test.com / Backoffice1
Station Operator Login: nuwani@gmail.com / nuwani123
- **GitHub Repositories:**
github.com/y4-systems/ev-station-booking-system-web (Web)
github.com/y4-systems/ev-station-booking-system-android (Android)
github.com/y4-systems/ev-station-booking-system-api (API)

Microservices Architecture

SLIIT

Cloud-Native Food Ordering & Delivery System (Group Project)

May 2025

- Developed a scalable, responsive food delivery platform inspired by UberEats using microservices architecture
- **Frontend (FoodFlix Web App):** Built with React.js and Tailwind CSS. Implemented category-based navigation (e.g., BBQ, Pizza, Chinese, etc.), promotional offer banners, search/filter/sort functionalities, and a fully responsive UI across devices
- **Backend Services:** Payment Service (Stripe), JWT-based Authentication, and Real-time Notification Service with SendGrid and Twilio
- **Architecture:** Designed RESTful APIs for restaurant, order, delivery, and notification services; Dockerized each service for deployment consistency
- **DevOps:** Deployed using Kubernetes for microservice orchestration with CI/CD integration and secure payment handling
- **Technologies:** Node.js, Express.js, MongoDB, React.js, Tailwind CSS, Stripe, SendGrid, Docker, Kubernetes
- **GitHub Repository:** github.com/NuwaniFonseka/FoodFlix

Microkernel Architecture

SLIIT

School Management System (Group Project)

May 2025

- Designed and implemented a dynamic School Management System using OSGi framework and microkernel architecture
- **Modules:** Fee Payment, Library management, producer-consumer bundles for processing payments and receipts
- **Features:** Real-time service registration, lifecycle management, inter-bundle communication via Apache Felix
- **Architecture:** Modular, service-oriented design emphasizing loose coupling for future extensibility
- **Technologies:** Java, OSGi Framework, Apache Felix, Microkernel Architecture

RESTful API Development

SLIIT

Finance Tracker (Individual Project)

Mar 2025

- Built a secure, role-based RESTful API for personal finance management
- **Features:** Income/expense tracking, budget planning, recurring transactions, goal tracking, financial reports
- **Security:** Multi-currency support, custom tags, JWT authentication with strong focus on security and scalability
- **Technologies:** Node.js, Express.js, MongoDB, JWT, Postman API

Frontend Web Application

SLIIT

Countries Explorer (Individual Project)

Apr 2025

- Developed a responsive React.js web application that displays country data using the REST Countries API.
- Implemented dynamic search, region and language filters, and detailed country views (population, flag, languages, and more).
- Utilized functional components, hooks, and state management for efficient UI updates and performance.
- Styled with **Tailwind CSS** and implemented unit tests using **Jest** and **React Testing Library**.
- Deployed the production build with session management and responsive design following modern frontend best practices.
- **Technologies:** React.js, Tailwind CSS, REST Countries API, Jest, React Testing Library
- **Live Demo:** countries-explorer-three.vercel.app
- **GitHub Repository:** github.com/NuwaniFonseka/countries-explorer

Donation Mobile Application

SLIIT

Donath Path (Group Project)

Sep–Oct 2024

- Flutter-based mobile application connecting donors, volunteers, and organizations
- **Features:** Event creation, secure donations, volunteer management, real-time notifications, analytics
- **Backend:** Firebase integration (Firestore, Authentication) with modern tech stack
- **Target:** Tailored for Sri Lankan community fostering collaboration and transparency in giving
- **Technologies:** Flutter, Figma, Dart, Firebase

Open Source Contributions

Women in FOSS Developer Assignment

SLIIT / Women in FOSS

Customizable Portfolio Template

Aug 2025

- Developed a fully customizable, responsive, and open-source **Portfolio Template** designed for easy reuse by other developers.
- Implemented modular sections including *Home*, *About*, *Projects*, *Skills*, and *Contact*, configurable via a JSON file for effortless personalization.
- Built using **React.js** and **Tailwind CSS** for a clean, modern, and mobile-friendly UI with dark theme support and EmailJS-based contact form integration.
- **Technologies:** React.js, Tailwind CSS, EmailJS, Vite, Git, Vercel
- **Live Demo:** portfolio-template-cyan-eight.vercel.app
- **GitHub Repository:** github.com/NuwaniFonseka/Portfolio-Template

Educational Background

Sri Lanka Institute of Information Technology

Malabe, Sri Lanka

BSc Software Engineering

Oct 2022–Present

Academic Performance:

- Cumulative GPA: 3.17/4.0

St. Peter's College Colombo 04 Negombo Branch

Negombo, Sri Lanka

Secondary Education

2008–2022

G.C.E. Advanced Level (2022) - English Medium

- Combined Mathematics, Physics, Chemistry: S (Simple Pass)

Language Proficiency

International English Language Testing System (IELTS)

Aug 2022

- Reading: 8.5 Listening: 7.5 Speaking: 7.5 Writing: 6.5

Soft Skills

Leadership & Communication: Serving as a Batch Representative since Year 1 and an active member of the **Women in FOSS Club**, contributing to event organization and inter-university competitions such as *Bashaway*.

Problem Solving: Effectively debugged complex integration issues in microservices communication and delivered stable solutions under time constraints.

Collaboration: Contributed to open-source projects and collaborated closely with peers and community members through the Women in FOSS initiative.

Adaptability: Quickly adapted to new technologies such as Docker and Kubernetes within limited academic timelines.

Time Management: Efficiently balanced multiple concurrent projects, academic coursework, and internship responsibilities while maintaining consistent performance.

Interests & Extracurricular Activities

Professional Development: Attended Postman GenAI + API Tour event 2025, participated in tech workshops at Perituza, engaged in industry visits to IFS for insights into enterprise software solutions

Creative & Personal Interests: Music enthusiast with keyboard playing skills, badminton player