

# Nuwani Fonseka

Software Engineering Undergraduate

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🌐 nuwani-portfolio-2025.vercel.app



## About Me

Fourth-year Software Engineering undergraduate at SLIIT. Detail-oriented and adaptable, with experience in full-stack and cloud-native development, and an interest in scalable systems, DevOps, and fairness-aware AI. Open to exploring diverse technical paths and growing through hands-on experience.

## Technical Skills

**Backend:** Node.js, Express.js, RESTful API Development, JWT Authentication, ASP.NET Core (.NET 8)

**Frontend:** React.js, Next.js, Tailwind CSS, HTML, CSS, Vite, JavaScript, React Native

**Databases:** MongoDB, MySQL, SQLite, Firebase, PostgreSQL (Supabase)

**DevOps & CI/CD:** Docker, Kubernetes, GitHub Actions, Google Cloud Run

**Testing & Quality:** JUnit, Selenium, Manual QA, UI Testing

**Programming Languages:** JavaScript, Java, C#, Python

**Tools/IDEs:** Git, GitHub, Visual Studio Code, Visual Studio, Android Studio

## Work Experience

### Kode Tech (Pvt) Ltd

Sri Lanka

Software Engineer Intern (Full-time, Hybrid)

Jul 2024–Feb 2025

- Worked in a fast-paced, client-driven environment delivering production-ready features across multiple real-world projects.
- Contributed to **11+ client projects** across e-commerce and banking domains with hands-on full-stack exposure.
- **Backend:** Developed user management systems using Node.js and Laravel; implemented CRUD operations and database migrations.
- **Frontend:** Built responsive interfaces using HTML, CSS, and JavaScript for WordPress, Shopify, and custom apps.
- **Quality Assurance:** Conducted functional, UI/UX, and exploratory testing ensuring release readiness.
- **Data Integration:** Migrated a multi-channel banking chatbot database between SQL and PostgreSQL.

## Projects

### Final Year Research Project (Group project)

SLIIT

Akura – Dyslexia-Aware Automated Sinhala Essay Grading System

2025–Present

- Ongoing undergraduate research on a **dyslexia-aware automated essay grading system** for Sinhala language assessments.
- **Responsible for the Bias-Aware Scoring Engine**, focusing on fairness-aware semantic evaluation rather than surface-level spelling accuracy.
- Implemented bias analysis and mitigation logic to reduce unfair penalization of dyslexic writing patterns.
- **Technologies:** Python, Machine Learning, NLP, Fairness-Aware AI
- **GitHub:** Frontend | Backend (Bias-Aware Engine)
- **Live Demo:** akura-qa.vercel.app

### Enterprise Application Development (Group Project)

SLIIT

EV Charging Station Booking System

Jul–Oct 2025

- Developed a **full-stack EV charging station booking system** with **web and native Android mobile applications**.
- Supported multiple user roles (**EV owners, station operators**) with real-time booking, cancellation, and session management.
- Built responsive web interfaces using **React.js and Tailwind CSS** and native Android features with offline-friendly **SQLite caching**.
- Designed and hosted secure **RESTful APIs** with JWT authentication on **Google Cloud Platform**.
- **Technologies:** React.js, Tailwind CSS, Android (Kotlin), ASP.NET Core (C#), MongoDB, SQLite, JWT, Google Cloud
- **Links:** Live | Web | API | Android

### Personal Full-Stack Project

Independent

*LeaveFlow – Leave Management System*

2025

- Built a **production-ready, cloud-native leave management system** with role-based workflows and audit logging.
- Implemented secure authentication and authorization using **JWT**.
- Developed backend services using **ASP.NET Core (.NET 8)** and deployed via **Docker** and **Google Cloud Run**.
- **Technologies:** React.js, ASP.NET Core (.NET 8), PostgreSQL, Supabase, JWT, Docker, GitHub Actions
- **Links:** Live | GitHub

### Microservices Architecture (Group Project)

SLIIT

*FoodFlix – Cloud-Native Food Ordering Platform*

May 2025

- Developed a scalable food ordering and delivery system using a **microservices-based architecture**.
- Built a responsive frontend with **React.js and Tailwind CSS**.
- Implemented backend services with JWT authentication, Stripe payments, and real-time notifications.
- Containerized services using **Docker** and deployed with **Kubernetes**.
- **Technologies:** Node.js, Express.js, MongoDB, React.js, Docker, Kubernetes
- **GitHub:** [github.com/NuwaniFonseka/FoodFlix](https://github.com/NuwaniFonseka/FoodFlix)

### Group Project

*Shopping Eye – Smart Shopping Mall Navigation System*

2024

- Built a smart shopping mall navigation system with interactive **3D maps**.
- Implemented **CRUD operations** for shop and item management with **role-based access** (admin, store owner, user).
- **Technologies:** MongoDB, Express.js, React.js, Node.js, Three.js
- **GitHub:** [github.com/NuwaniFonseka/Shopping-Eye](https://github.com/NuwaniFonseka/Shopping-Eye)

### Group Project

*Zero Waste – Smart Garbage Management System*

2024

- Developed a smart waste management system with optimized garbage collection workflows.
- Implemented QR-based waste tracking and route scheduling for efficient collection.
- Designed dashboards for monitoring and operational insights.
- **Technologies:** MERN Stack, QR Scanning
- **GitHub:** [github.com/NuwaniFonseka/Zero-Waste](https://github.com/NuwaniFonseka/Zero-Waste)

## Open Source Contributions

### Women in FOSS Developer Assignment

SLIIT / Women in FOSS

*Customizable Portfolio Template*

Aug 2025

- Open-source, customizable portfolio template with dark theme and EmailJS integration.
- **Tech:** React.js, Tailwind CSS, Vite, EmailJS    **GitHub:** Repo    **Live:** Demo

### Open Source Contribution

Women in FOSS

*Women in FOSS Official Website*

2025–Present

- Contributing to the Home section using Next.js App Router.
- **Tech:** Next.js, TypeScript, Tailwind CSS    **GitHub:** Repo

## Educational Background

### Sri Lanka Institute of Information Technology

Malabe, Sri Lanka

*BSc Software Engineering*

Oct 2022–Present

#### Academic Performance:

- Weighted GPA: 3.42 / 4.0
- **Dean's List: Year 4, Semester 1** (Semester GPA: 3.7)

## Language Proficiency

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IELTS

2022

○ Reading 8.5, Listening 7.5, Speaking 7.5, Writing 6.5

## Soft Skills

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**Leadership & Initiative:** Batch Representative since Year 1. Proactive in identifying and resolving blockers in group projects while maintaining clear team coordination.

**Communication & Collaboration:** Active member of the **Women in FOSS Club**; contributed to open-source projects through cross-team collaboration and discussions.

**Attention to Detail:** Recognized during internship for strong attention to detail and assigned QA responsibilities alongside development work.

**Problem Solving:** Resolved integration issues and supported teams through effective communication and structured problem-solving.

**Adaptability:** Quickly adapted to new technologies such as Docker, Kubernetes, and cloud platforms under tight timelines.

**Time Management:** Balanced academic coursework, research, internship, and multiple projects with consistent performance.

## Interests & Extracurricular Activities

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**Professional Engagement:** Participated in industry-led API and GenAI events and technical workshops.

**Interests:** Keyboard player since age 10; interested in music, art, fashion and recreational badminton.

## References

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Referees available upon request