

Ruchira Tharanka

Software Engineering Undergraduate

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[Portfolio](#) [LinkedIn](#) [GitHub](#)

Professional Summary

Software Engineering undergraduate at SLIIT with hands-on experience in client-side and server-side software development using the MERN stack and relational databases. Strong understanding of Object-Oriented Programming, REST API design, and service implementation. Delivered multiple projects - from microservices and payment integrations to interactive web UIs- by designing, coding, and deploying end-to-end solutions. Currently seeking a Software Engineering internship where I can diagnose and resolve complex software issues, optimize performance, and build scalable systems.

Education

- **Sri Lanka Institute of Information Technology (SLIIT)** Sep 2022 – Sep 2026
BSc (Hons) in Information Technology Specializing in Software Engineering
Coursework: Software Engineering, Object-Oriented Programming, Database Management, Data Structures & Algorithms, Software Architecture, Mobile Application Development, UX Engineering, Software Project Management
 - **Dharmasoka College, Ambalangoda** Sep 2012 – Sep 2020

Certifications & Courses

- Web Design for Beginners – University of Moratuwa
 - Python for Beginners – University of Moratuwa

Professional Experience

- ClimateReady — Disaster Resilience Platform** Sep 2025 – Oct 2025

React Native · Expo · Express · Firebase · Firestore · Vite · Socket.io

 - Built SOS sharing and live-location pipeline: mobile client sends an SOS (message + medical info) and generates a browser-accessible live-tracker link for responders.
 - Implemented real-time location streaming with Socket.io and a Vite+React tracker so receivers can view sender GPS updates in the browser.
 - Integrated Firebase (Auth, Firestore, Cloud Messaging) and Express REST endpoints to manage sessions, secure access, and push notifications.
 - Developed safe-zone mapping (Google Places/Maps) and reusable TypeScript modules; enforced linting and code-quality rules.
 - GitHub: ClimateReady

SkyDish – Food Delivery Microservices

Mar 2025 – May 2025

Group Project · React · Tailwind CSS · Node.js · Express · MongoDB · Docker · Stripe · Resend · Twilio · Kubernetes

- Collaborated in a 4-member team to build a cloud-native, microservices-based food delivery platform.
- Role: Architected and built the Payment Service microservice - designed 4 RESTful endpoints, integrated Stripe SDK for payment processing, and configured webhook listeners for real-time status updates.
- Leveraged Twilio and Resend APIs to dispatch SMS and email notifications upon order and payment events.
- Containerized services with Docker Compose and orchestrated them on Kubernetes for scalable deployment.
- GitHub: [Food-Delivery-Microservices](#)

Personal Finance Tracker API

Feb 2025 – Apr 2025

Node.js · Express · MongoDB · JWT · Jest · Supertest

- Designed and implemented a secure RESTful API comprising 15+ endpoints for personal finance management, enforcing role-based access via JWT.
- Crafted CRUD endpoints for transactions (including recurring entries), budgets, savings goals, and multi-currency financial reports.
- Implemented a notification engine that dispatches real-time alerts when user spending reaches 80% of set budgets or when savings milestones are hit.
- Authored comprehensive Postman collection and achieved >90% endpoint coverage with Jest/Supertest.
- GitHub: [Finance-Tracker-API](#)

Skills & Technologies

- **Frontend:** React.js, JavaScript (ES6+), HTML, CSS3, Bootstrap, Tailwind CSS
- **Backend:** Node.js, Express.js, Java, PHP
- **Databases:** MongoDB, MySQL
- **Programming Languages:** Java, Python, C, C++
- **DevOps & Tools:** Git, GitHub, Docker, Postman, Vercel, Railway, Jest, Firebase, Jira

Languages

- Sinhala – Native proficiency
- English – Professional working proficiency