

Ruchira Tharanka

Software Engineering Undergraduate

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Professional Summary

Software Engineering undergraduate at SLIIT with hands-on experience in client-side and server-side 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)** Sept 2022 – Sept 2026
BSc (Hons) in Information Technology Specializing in Software Engineering
Coursework: Software Engineering, Object-Oriented Programming, Database Management, Operating Systems, Data Structures & Algorithms, Software Architecture, Mobile Application Development.
- **Dharmasoka College, Ambalangoda** Sept 2012 – Sept 2020

Certifications & Courses

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

Projects

REST Countries Explorer Apr 2025 – May 2025

React · Tailwind CSS · Node.js · Express · MongoDB · JWT · amCharts

- Engineered a full-stack web app to explore and filter data for 250+ countries, with user authentication and favorites management.
- Developed secure JWT-based auth and persistent favorites via a Node.js/Express API with MongoDB.
- Incorporated a 3D interactive globe visualization using amCharts and optimized responsiveness via Tailwind CSS.
- Deployed frontend on Vercel and backend on Railway, maintaining 99.9% uptime.
- GitHub: [Rest-Countries-Explorer](#)

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+), HTML5, 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