

Ruwani Ranthika

Software Engineer | Full-Stack Development · Java · Spring Boot · Node.js · React · REST APIs · AI-Assisted Development

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SUMMARY

Software Engineer who has completed a Higher Diploma in Software Engineering, with hands-on industry experience through a **six-month** full-stack software engineering internship and freelance development experience. Skilled in developing scalable web applications and RESTful APIs while following clean code principles and best practices. A fast learner who quickly adapts to new technologies and AI-assisted development. Passionate about building high-quality software and growing as a full-stack software engineer.

TECHNICAL SKILLS

BACKEND DEVELOPMENT	Java, Spring, Spring Boot, Java EE, Node.js, Express.js, Fastify, Hibernate, JPA, Python, REST APIs, JWT
FRONTEND DEVELOPMENT	HTML, CSS, TypeScript, JavaScript, React, Material UI, jQuery, JavaFX, React Native, Figma (UI/UX Design), PWA
DATABASES & PERSISTENCE	MySQL, MongoDB, JDBC, Object-Relational Mapping (ORM), Prisma (ORM)
CLOUD, TOOLS & PLATFORMS	Google Cloud Platform (GCP), Firebase, Vercel, Docker, Git, GitHub, GitHub Actions, Postman, Swagger UI, MongoDB Compass, Jira
ARCHITECTURE & CONCEPTS	MVC Architecture, Layered Architecture, Design Patterns (Singleton, Factory), Object-Oriented Programming (OOP), Programming Fundamentals, Computer Networking

EXPERIENCE

Software Engineering Intern

Mar 2026 – Sep 2026

Code3x (Pvt) Ltd. · Colombo, Sri Lanka · Full-Time · Remote

Project: RentEaze - Multi-Tenant Vehicle Rental Platform · [rentzee.lk](#)

- Implemented new features and resolved bugs based on business requirements, engineering 200+ production-ready REST APIs across 15 core domains as primary backend developer, authoring 52%+ of the total codebase with 800+ commits.
- Built real-time cloud, security & background infrastructure, including a live multi-currency exchange engine, push notifications, secure file uploads, and customer-vendor messaging.
- Collaborated with cross-functional team members to test, debug, and maintain applications following clean code principles across the frontend and backend.
- Worked extensively with Git and GitHub, including branch management, pull requests, merge conflict resolution, and 190+ tag-based CI/CD deployments through peer-reviewed workflows.
- Followed Agile Scrum practices, participating in daily stand-ups, sprint planning, and retrospectives to deliver reliable, high-quality software.

Key Impact: Primary backend developer (800+ commits · 52%+ codebase ownership) · 200+ REST APIs developed · 190+ tag-based deployments

STACK : Node.js · Fastify · TypeScript · Prisma ORM · MongoDB · Redis · React · Firebase Auth · AWS S3 · Stream Chat · OneSignal · OpenExchangeRates · Chrome DevTools · Git · GitHub Actions · Jira

Project: Digital Tourism - Backend Service Migration · [digitaltourism.travel](#)

- Analyzed the existing Spring Boot and Node.js services and designed a unified backend migration approach to consolidate the two services into a single Node.js service.
- Reverse-engineered and modeled 93 database entities and their relationships, designing a comprehensive ERD to support entity consolidation and a controlled database migration strategy.
- Defined and consolidated domain entities by analyzing relationships across the existing services and identifying reusable entity structures for the unified system.
- Designed the target database structure and developed the Prisma schema for the 93-entity data model, preparing the system for migration to the Node.js backend.
- Collaborated with another backend intern to document the migration approach and produce a backend migration report, contributing from database analysis through target architecture design.

Key Impact: 93 database entities analyzed and modeled · Unified ERD and consolidated domain model designed · Prisma schema prepared for Spring Boot → Node.js backend migration

STACK : Node.js · TypeScript · Prisma ORM · MySQL · Spring Boot · Java · ERD · Database Migration

Project: MOOC - Multilingual Online Learning Platform

- Developed responsive, reusable frontend features following Figma specifications.
- Built reusable UI components and a centralized design system with responsive layouts, typography, and shared design tokens.
- Implemented API client and state management architecture using Redux Toolkit, with asynchronous request handling, caching, data synchronization, optimistic updates, and error states.
- Implemented English/Sinhala localization, core course interfaces, and PWA capabilities.
- Configured environment-specific variables and deployed the application to Firebase Hosting using CMD-based deployment commands.
- Managed tasks and pull requests through supervisor code reviews, addressing requested changes through approval cycles.

Key Impact: Reusable React UI system · API/state architecture · English/Sinhala localization · PWA · Environment-based configuration · Firebase deployment

STACK : React 19 · TypeScript · Vite · Material UI · REST APIs · Redux Toolkit · React-i18next · PWA · Workbox · Firebase Hosting · Git · GitHub · Jira

Freelance Full-Stack Developer Oct 2025 - Dec 2025

Freelance Client Project · Contract

Project: Floating Therapy - Automated Session Scheduling & Package Management Platform · thetalounge.com

- Co-developed a full-stack wellness management platform for a floatation therapy business, building a mobile-first responsive frontend and 30+ REST APIs across 13 domain modules.
- Designed and built 19+ application pages across client and admin portals, including appointment booking calendars, package credit redemption, and a secure Admin Control Panel with role-based access and protected routing.
- Engineered a custom staggered scheduling algorithm to calculate available float slots per tank based on operating hours, session length, and capacity.
- Built an Admin Dashboard and reporting suite to visualize revenue growth, tank utilization, booking trends, and cancellation rates.
- Implemented secure authentication, transaction safety to prevent double booking, automated email notifications, and a scheduled job for daily package expiration checks.
- Collaborated with a development partner and client stakeholders across the full development lifecycle, translating requirements from weekly client meetings into working functionality.

Key Impact: Co-developer on freelance full-stack project · 19+ React pages & admin dashboard · Custom staggered slot scheduling algorithm · MongoDB ACID transactions for zero double-booking · Recharts analytics & automated cron jobs

STACK : React 19 · TypeScript · Tailwind CSS · Redux Toolkit · Recharts · Framer Motion · Node.js · Express.js · MongoDB · Mongoose ORM · JWT · Firebase Auth · Bcrypt · Node-Cron · Nodemailer · Postman · Chrome DevTools · Git · GitHub

PROJECTS

Adlync - Smart Classified Ads & Marketplace System **SPRING BOOT** Aug 2025 - Present

Developed a full-stack classified marketplace where users can post and manage ads, manage profiles, make payments, and chat with sellers in real time. Implemented role-based access for Admin, Moderator, and User, including ad approvals, payment reviews, report management, and ratings. Built secure authentication, image uploads, and responsive UI with support for Google login and JWT-based access.

STACK : Spring Boot · Java 21 · MySQL · Bootstrap · jQuery · AJAX · JSON · Firebase · JWT · WebSocket · Swagger UI · Draw.io
YouTube Demo · GitHub Repository

GoPlan - Travel Planning Mobile App **REACT NATIVE · EXPO** Jan 2026 - Feb 2026

Developed an AI-powered mobile travel planning application with user authentication, profile management, and cloud-based travel data. Integrated Google Gemini API to generate personalized travel plans and recommendations based on user requirements. Processed and managed large travel datasets using Python and integrated cloud image storage for destination content.

STACK : React Native · Expo · Google Gemini API · Firebase Authentication · Firestore · Redux · Python · Cloudinary
Build APK File · GitHub Repository

EDUCATION

BSc (Hons) Computing Oct 2026 - Present
Wrexham University (UK)

Higher Diploma in Software Engineering Feb 2024 - Sep 2026
Institute of Java and Software Engineering (IJSE)