

SASANKA KARUNARATHNA

Full Stack Web Developer

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Colombo, Sri Lanka



EDUCATION

BSc (Hons) in Software Engineering Sri Lanka Institute of Information Technology (SLIIT)

- 01/2023 - 2026 Colombo, Sri Lanka
- CGPA: 3.9/4.0
 - Expected Graduation: 2026
 - Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Web & Mobile Development, Database Management, Software Engineering
 - Achievements: Deans List (3 Semesters), Academic Excellence Scholarship (2 Semesters)

PROJECTS

Smart Waste Management System

- 08/2025 - 11/2025
- Full-Stack Developer | Technologies: Spring Boot, React, PostgreSQL
- Engineered a complete web-based waste management system with three distinct user roles: Waste Collectors, Residents, and Admin.
 - Developed the Waste Collector Module enabling collectors to log waste amounts and calculate payments based on weight and type.
 - Built the Resident Portal allowing users to schedule pickups, track collection history, and make payments.
 - Created the Admin Dashboard for managing users, monitoring collection metrics, generating reports, and overseeing system operations.
 - Design a PostgreSQL database schema and implemented Spring Boot REST APIs for secure data handling and role-based access control.

EcoConnect – Environmental Sustainability App

- 08/2025 - 10/2025
- Full-Stack Mobile Developer | Technologies: React Native, Expo, Firebase, TypeScript
- Developed a cross-platform mobile app for organizing beach cleanup events and tracking waste analytics using React Native and Expo.
 - Built and implemented the complete Sponsor Management System, enabling organizations to register, track contributions, and manage sponsorship tiers for environmental events.
 - Implemented Firebase Authentication and Firestore for user management and real-time data synchronization between sponsors, organizers, and volunteers.
 - Designed an admin dashboard for monitoring sponsorship metrics, contribution tracking, and event participation analytics.

Pet Care Management System

- 02/2025 - 04/2025
- Full-Stack Developer | Technologies: MERN Stack
- Engineered a full-stack web platform with five modules for comprehensive pet care, including appointment scheduling and event management.
 - Implemented JWT-based authentication and role-based access control for admins, veterinarians, and pet owners.
 - Developed the complete event management system enabling scheduling and registration for over 100 pet-related activities.
 - Designed a responsive UI with React components and managed state effectively using React hooks and context.

SUMMARY

Third-year Software Engineering undergraduate with a 3.9/4.0 GPA, specializing in MERN stack development and mobile application development using Kotlin and React Native. Experienced in building full-stack web platforms, cross-platform mobile apps, and scalable backend systems. Proven ability to deliver complete projects—from UI/UX design to deployment—with a focus on clean code and user-centered solutions. Seeking a Software Engineering Internship to contribute, learn, and grow within a collaborative tech team

LANGUAGES

- English Native
- Sinhala Native

SKILLS

Group Title			
Java	Kotlin	JavaScript	Python
C/C++	HTML5	CSS3	
TypeScript	React	React Native	
Android SDK	XML	Node.js	
Express.js	Spring Boot		
Java Servlets	MongoDB		
PostgreSQL	MySQL	SQLite	
Android Studio	Expo	Firebase	
Git	GitHub	Postman	Figma
VS Code	RESTful APIs	OOP	
Data Structures	Responsive Design		
Agile	Scrum	AWS	