Sasanka Karunarathna

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in Linkedin ⌗ GitHub 👤 Portfolio

Professional Summary

Enthusiastic third-year BSc (Hons) Software Engineering student at SLIIT (GPA 3.9/4.0) with hands-on experience building full-stack applications using MERN stack. Delivered real-world projects including order management platforms with real-time tracking, smart waste management systems, and pet care solutions. Passionate about clean code, scalable architecture, and currently expanding into DevOps practices (Docker, CI/CD, cloud deployment) to contribute effectively in dynamic development teams.

Education

BSc (Hons) in Software Engineering   2023 – Present
Sri Lanka Institute of Information Technology (SLIIT)

- Cumulative GPA: 3.9/4.0
- Deans List Honoree **all semesters completed to date**
- Relevant Coursework: Web Development, Mobile Application Development, Database Systems, Software Engineering, OOP, Data Structures & Algorithms

Technical Skills

- **Languages**: JavaScript/TypeScript, Java, Python
- **Frontend**: React.js, Next.js, HTML5, CSS3, Tailwind CSS
- **Backend**: Node.js, Express.js, RESTful APIs, JWT Authentication
- **Databases**: MongoDB, PostgreSQL, MySQL, SQLite
- **Mobile**: Android (Kotlin), Android Studio, React Native, Expo
- **Project Management & Tools**: Jira, Trello, GitHub Projects, Agile/Scrum basics
- **Tools & Others**: Git/GitHub, Docker (learning), Postman, Figma, VS Code, AWS basics, Linux

Projects

Order Management & Delivery Tracking System   Jan–Feb 2026
Full-Stack Developer | MERN Stack

- Developed full-featured order management platform for food business with separate Admin & Customer flows
- Built Admin Dashboard showing orders, customer details, delivery addresses, itemized breakdowns
- Implemented multi-stage dynamic order status (Placed Processing Out for Delivery Delivered/Cancelled) with real-time UI updates
- Designed secure RESTful APIs for order CRUD operations and status transitions; created efficient MongoDB schemas
- GitHub: github.com/sasiiii02/Cookieist

Pet Care Management System   Feb–May 2025
Full-Stack Developer | MERN Stack (MongoDB, Express.js, React, Node.js)

- Developed a complete full-stack pet care platform featuring 5 core modules
- Supported management of over 50 pet profiles and 100+ appointment bookings
- Designed and led implementation of the event management system enabling seamless event scheduling, registration, and participation for pet-related activities
- Implemented secure JWT authentication, role-based access control, pet image file uploads, responsive design, real-time UI updates
- GitHub: github.com/sasiiii02/PetSystem

Smart Waste Management System   2025
Full-Stack Developer | React + Spring Boot + PostgreSQL

- Developed full-stack solution for waste collection scheduling, automated billing, resident incentives and staff operations
- Created role-based dashboards: Resident (scheduling, billing, incentives), Staff (mobile-friendly, QR scanning, offline support), Admin (analytics, route planning, reports)
- Integrated JWT authentication, PayHere payment gateway, PDF/CSV report generation, Chart.js visualizations, email/SMS notifications
- GitHub: github.com/sasiiii02/Smart-Waste-Management