



SAHAN WEERAKKODY

Software Engineering Undergraduate

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Summary

Third-year Software Engineering undergraduate at SLIIT passionate about crafting innovative, scalable, solutions. Adept at transforming complex ideas into functional systems, with a strong foundation in software design and development. Committed to delivering high-quality projects on time while thriving in collaborative and dynamic environments. Excels in problem-solving and adapting to evolving challenges, with a keen interest in creating impactful digital experiences

Languages and Frameworks

- Java
- C++
- C
- Javascript
- Python
- React.js
- Node.js
- Express
- Next.js

Tools and technologies

- Git
- AWS
- Postman
- Android Studio
- IntelliJ
- VS Code
- Jira
- SQL
- Figma

Technical Skills

- OOP Concepts
- Data Structures and Algorithms
- Version Controlling (git)
- Code Refactoring
- Database Knowledge (SQL , No SQL)
- Design Patterns
- Testing and Debugging
- Software Development
- Agile Methodologies and Project Management

Projects

Sales Optimization Solution for Fashion Retail

2024

- Trained a machine learning model in Google Colab using Python to predict next month's sales by product based on sales history. Deployed the solution via a Flask API.
- Designed a UI with React.js, Vite, MUI, and Tailwind CSS for interactive graphs, optimizing API integration and workflows for improved user experience and efficiency.
- Developed Node.js REST APIs with Express and MongoDB, handling data transactions daily and generating reports for real-time business insights.
- Developed a secure role-based user management system with JWT authentication and OTP verification for efficient onboarding.
- Refactored code for better performance and maintainability.

Technologies used- Python, Google Colab, Flask, Node.js, Express, React.js, TailwindCSS, MongoDB

Web based Point of Sale System

2023

- Developed a full-stack POS system using the MERN stack, integrating QuaggaJS for barcode scanning, JWT authentication, and MongoDB to create separate databases for each user, ensuring secure and personalized access.
- Enabled real-time inventory management with MongoDB, allowing users to easily scan products and generate accurate bills automatically through the integrated bill generator.
- Implemented secure user management with JWT authentication and tracked activities in dedicated databases.

Technologies used- React.js, Node.js, Express, MongoDB

Online Vehicle Service Management System

2024

- Developed an Online Vehicle Service Management System for Wasana Service Center, streamlining service booking and tracking processes.
- Developed a React.js UI enhancing customer satisfaction and integrated Node.js REST APIs with MongoDB for real-time updates
- Implemented a repair estimate calculator featuring a dynamic multi-stepped form, enabling customers to input vehicle details and receive accurate service cost estimates in real time.

Technologies used- React.js, Node.js, Express, MongoDB, Firebase

Certificates

- [Meta Advanced React Coursera](#)
- [Meta React Basics - Coursera](#)

References

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N.H.P. Ravi Supunya Swarnakantha
MSc (IT), PGD (IT), BSc (Hons)(SE)
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Technology
Faculty of Computing - SLIIT
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Mobile Solution for Marine Conservation

2024

- Developed secure role-based authentication using Flutter and Firebase Authentication.
- Implemented report polluted areas with image uploads, automated cleaning event scheduling, and real-time geolocation with Firebase Firestore and Google Maps, boosting community engagement.
- Designed a Flutter UI with reusable components and animations, based on UI/UX principles, enhancing engagement and streamlining user tasks.

Technologies used- Flutter, Firebase, Google Map API

Education

BSc (Hons) Software Engineering

2022 - 2026

Sri Lanka Institute of Information Technology
CGPA - 3.03

G.C.E A/L & G.C.E O/L

2017 & 2021

Rajapakshe Central Collage - Weeraketiya

Working Experience

Intern Software Engineer - Microweb Global

2024 - Present

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