

Suruthi Manivannan

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A final-year Computer Science undergraduate with a strong focus on backend development. Experienced in building server-side applications using Java and Spring Boot through an internship and several hands-on projects. Comfortable working with APIs, databases, and backend logic, and keen to learn new tools and improve coding practices while contributing as part of a team.

EXPERIENCE

Software Engineer Intern <i>X-Venture Global Solutions</i>	Nov 2024 – May 2025
<ul style="list-style-type: none">Contributed to the research, design, and development of the Xapi–WSO2 API Manager (APIM) integration by evaluating API management approaches and working closely with the WSO2 APIM team to gather and clarify requirementsBuilt a complete Proof of Concept (PoC) for the integration, including a demo application developed with Spring Boot and Angular, along with clear technical documentation and a Postman collection for testing and validating endpointsSupported the implementation of the Xapi integration by designing UI wireframes and making updates to both frontend and backend codebases to incorporate WSO2 APIM functionalityDesigned and developed a User Management System (Frontend & Backend) from scratch, utilizing industry-standard best practices including object-oriented programming concepts, design patterns, dependency injection, and Hibernate for efficient data persistence.Technologies used: Java, Spring Boot, Angular, TypeScript, WSO2 APIM, Postman, MongoDB, Keycloak, Docker, Git	

EDUCATION

University of Colombo School of Computing <i>Bachelor of Science (Hons.) in Computer Science</i>	2022 – Present
Hindu Ladies' College <i>Physical Science Stream</i>	2007 – 2020

PROJECTS

CoMind <i>LangChain, LangGraph, Groq LLMs, FastAPI, Spring Boot, React, TypeScript, Vite, Git</i>	2025
<ul style="list-style-type: none">An AI-powered platform that simplifies backend creation using a collaborative agent-based approach. It leverages LangChain and LangGraph to coordinate multiple intelligent agents that plan, design, and decompose backend systems from natural language descriptions, enabling structured backend generation without manual coding.	
La Fresca <i>React, TypeScript, Vite, Spring Boot, MongoDB, Python, FastAPI, Swagger, Figma, Git</i>	2024
<ul style="list-style-type: none">A café chain management system designed to manage multiple cafés under a single platform, allowing each location to operate independently. The system supports inventory management, online and onsite order handling, delivery coordination, and kitchen operations to streamline daily workflows across all cafés.	
Sri Care <i>Spring Boot, Node.js, MongoDB, MySQL, React, JavaScript, Vite, React Native, Git</i>	2024
<ul style="list-style-type: none">A customer care application built using a microservices architecture to manage user accounts, billing, and service coordination efficiently. The system uses clearly defined service boundaries and API request-response flows to ensure reliable backend communication.	
KindHeart <i>HTML, CSS, JavaScript, PHP, MySQL, Figma, Git</i>	2023
<ul style="list-style-type: none">A web-based charity funding system designed to support Sri Lankan students by connecting them with donors and beneficiaries. The system uses a structured MVC architecture and a MySQL database to manage user data, donations, and funding requests. The frontend provides an intuitive interface, while version control and design tools ensure the system is organized and maintainable.	

AWARDS AND RECOGNITIONS

NBQSA (National ICT Awards) - Initial Round Qualified	2024
<i>Submitted our 3rd year group project to National ICT Awards</i>	
FreshHack 3.0 - Finalists (Team Web Crawlers)	2023
<i>Hackathon organized by UCSC ISACA Student Group</i>	
RealHack 4.0 - Participation	2023
<i>Inter-university hackathon organized by IEEE Student Branch of Kelaniya</i>	

CERTIFICATIONS

Introduction to Containers w/ Docker, Kubernetes & OpenShift	2025
<i>IBM</i>	
Postman API Fundamentals Student Expert certification	2025
<i>Postman Academy</i>	
AWS Educate Introduction to Cloud 101	2023
<i>Amazon Web Services (AWS)</i>	

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

IEEE WIE Student Branch Affinity Group of UCSC	2024 – 2025
• Secretary - Executive Committee	
• Organizing Committee Member - Content - Hackaholics 6.0	
ACM Student Chapter of UCSC	2023 – 2024
• Committee Member - Content	
• Organizing Committee Member - Program - Introductory Session 2023	
IEEE Student Branch of UCSC	2022 – 2023
• Committee Member - Web	
• Organizing Committee Member - Content - Codyssey	
• Organizing Committee Member - Content - IEEE Day '22	

SKILLS AND INTERESTS

Languages: Java, Python, PHP, C, C++, SQL, JavaScript, TypeScript

Core CS: Data Structures and Algorithms, Object-Oriented Programming

Backend Development: Spring Boot, REST APIs, Microservices Architecture, Hibernate/JPA

Frontend Development: React, HTML, CSS

Databases: MySQL, MongoDB, PostgreSQL

API & Testing Tools: WSO2 APIM, Swagger/OpenAPI, Postman, Selenium

Cloud & DevOps: Oracle, AWS (Foundational), Docker

Tools & Practices: Git, IntelliJ, VS Code, Figma, Agile/Scrum

Communication: Fluent in English (verbal and written)

Soft Skills: Problem Solving, Team Collaboration, Presentation, Documentation Writing

REFERENCES

Dr. Asanka Sayakkara

PhD (UCD, Dublin)
B.Sc. (Hons) (Colombo), SMIEEE
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