

Suruthi Manivannan

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A fourth-year Computer Science undergraduate at the University of Colombo School of Computing, passionate about building innovative web applications. Committed to continuous learning and growth, I am excited to take on new challenges and contribute to meaningful projects.

EXPERIENCE

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| 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 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 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

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| 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

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| CoMind <i>LangChain, LangGraph, Groq LLMs, FastAPI, 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 and scalable 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 cafe management system developed for a growing chain of cafes, designed to streamline order handling, inventory management, and overall operational workflows. The system integrates a backend built with Spring Boot, a frontend developed in React, and a stock prediction model using Python to support data-driven inventory planning. | |
| Sri Care <i>Spring Boot, Node.js, MongoDB, MySQL, React, 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 scalable and 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 providing reliable connections between 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

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| 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

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| AWS Educate Introduction to Cloud 101 | 2023 |
| <i>Credential ID: 2fb050c3-b635-4a16-a818-8c42d49172da</i> | |

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

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| 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

Developer Tools: Git, IntelliJ, VS Code, Figma, Postman

Frameworks/Tech Stacks: Spring Boot, MERN Stack

Cloud/Databases: MySQL, MongoDB, AWS

Soft Skills: Compering, Presentation, Communication, Writing

Areas of Interest: Digital Forensics, Cyber Criminalistics

REFERENCES

Dr. Asanka Sayakkara

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

Senior Lecturer (Gr.II), Coordinator of the MCS and MSc in CS Programs

University of Colombo School of Computing (UCSC), Sri Lanka.

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