

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

Nov 2024 – May 2025

X-Venture Global Solutions

- 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 requirements
- Built 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 endpoints
- Supported the implementation of the Xapi integration by designing UI wireframes and making updates to both frontend and backend codebases to incorporate WSO2 APIM functionality
- Designed 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

2022 – Present

Bachelor of Science (Hons.) in Computer Science

Hindu Ladies' College

2007 – 2020

Physical Science Stream

PROJECTS

CoMind | *LangChain, LangGraph, Groq LLMs, FastAPI, Spring Boot, React, TypeScript, Vite, Git* 2025

- 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 | *React, TypeScript, Vite, Spring Boot, MongoDB, Python, FastAPI, Swagger, Figma, Git* 2024

- 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 | *Spring Boot, Node.js, MongoDB, MySQL, React, JavaScript, Vite, React Native, Git* 2024

- 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 | *HTML, CSS, JavaScript, PHP, MySQL, Figma, Git* 2023

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

CERTIFICATIONS

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

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

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

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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