



Kurukulasuriya Kavishka Sandeepa Fernando

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ABOUT ME

As a software engineer, I thrive on turning complex challenges into innovative solutions, blending web development expertise with a passion for GenAI and AI Agentic frameworks. An information systems undergraduate embodies a rare blend of natural creativity and passion for innovation. Finding joy in problem solving and continually learning something new every day, strong leadership, teamwork, and communication skills are evident. Prioritizing accountability, the focus is on ensuring the quality and timely completion of work

EDUCATION

- **University of Colombo School of Computing** Colombo, Sri Lanka
Bachelor of Science Honors - Information Systems; CGPA/Percentage: 3.6/4.00 May 2021 - Present
- **Marisstella College Negombo** 2019
G.C.E. Advanced Level

EXPERIENCE

- **Sysco LABS Sri Lanka** Colombo, Sri Lanka
Intern Software Engineer November 2023 - May 2024
Played a key role in the GraphQL migration of the Back-End-for-Front-End (BFF), enhancing the system's efficiency and scalability. Participated actively in the development and resolution of bugs in the BFF. Additionally, developed a full-stack project utilizing React micro-frontends and the BFF pattern within a microservices architecture, demonstrating strong technical expertise and innovative problem-solving skills.
 - React JS, Express JS (Node JS), Docker, Spring (Java), GraphQL, AWS, Jenkins, PostgreSQL, Redis.
- **Intendable** Colombo, Sri Lanka
Software Engineer(Part time) June 2024 - September 2024
Contributed to the development of a user registration system for a courier service platform, optimizing the onboarding experience for multiple user types. Leveraged technologies like PostgreSQL, Spring Boot, and AWS to design scalable, efficient backend services. Attended clients meetings as a developer.
 - Springboot, AWS, PostgreSQL
- **UCSC** Colombo, Sri Lanka
Undergraduate Teaching Assistant December 2024 - Present
Assisting in teaching and mentoring students in the Data Structures and Algorithms (DSA) course. Responsibilities include conducting tutorial sessions and providing support to students in mastering complex topics.

PROJECTS

- **VentureVerse - Investor and Entrepreneur connecting Platform** Jun 2023 - Nov 2023
Played a significant role in developing the backend of the chat functionality, ensuring smooth and secure communication between users. Took charge of user management within the system, ensuring a seamless and secure experience for all platform users. Contributed to the design phase, helping shape the platform's user interface and overall user experience
 - Tools & Technologies used: React JS, Tailwind CSS, Spring Boot, PostgreSQL, AWS

- **Enhancing Digital Forensic process using AI Agents - Final year Research project** *May 2024 - Present*
A research-based project leveraging AI agents to enhance digital forensic investigations with a focus on Sleuth Kit integration.
 - Tools & Technologies used: Python, Microsoft Autogen, Docker, Open source LLM's, RAG, Prompt Engineering(ReAct)
- **Project Summit Sysco LABS - Full Stack Project** *Jul 2021 - Aug 2021*
A Full Stack project that replicates an e-commerce platform catering to B2B services using Microservices BFF pattern and Microfrontend architecture.
 - Tools & Technologies used: React, Springboot, AWS
- **Project Summit Sysco LABS - AI Project**
A 4IR-based project aimed at solving a current Sysco problem using GenAI image generation to create personalized banners, automating design tasks and reducing time and costs.
 - Tools & Technologies used: Python, Stable Diffusion, Gemini, VertexAI
- **CharitABLE: Donation Management System**
Led the project as team leader, the project team guided the development process. Full-stack development efforts were dedicated to the actor beneficiary. A priority notification algorithm was developed, leveraging the Google Maps API to identify and notify potential donors located closest to the beneficiary, ensuring swift and efficient response to urgent requests.
 - Tools & Technologies used: html, css, js,php,mysql, google maps API
- **Test Automation framework**
The project is designed with the Page Object Model (POM) architecture, using TestNG for test orchestration, Selenium WebDriver for UI automation, and Allure for reporting.
 - Tools & Technologies used: Java, Selenium, TestNG

TECHNICAL SKILLS

Languages: C, Java, PHP, JavaScript

Frameworks: React JS, Spring Boot, Express JS, Tailwind CSS

Cloud/Databases: MySQL, PostgreSQL

Other Technologies: Git, Linux, Figma, Jira

SOFT SKILLS AND INTERESTS

Personal Skills: Communication, Problem solving, Time management, Collaboration, Adaptability

Areas of Interest: Game Development, Machine Learning, AI agents

Research Interest: AI agents, LLM, Digital Forensics, Prompt Engineering

REFEREES

- Dinisha Tennakoon

Associate Software Architect

Lead Engineering Manager at Sysco LABS

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- Dr. Asanka P. 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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