

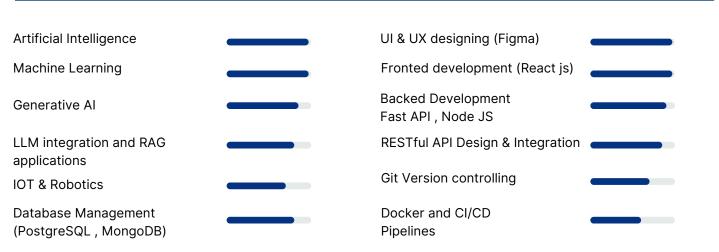
# SAHAN WIJESUNDARA

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# SUMMARY

I am a dedicated Computer Science with AI student at Coventry University, passionate about using technology to solve real-world problems. I earned a distinction in my HND with a 3.83 GPA, reflecting my strong academic performance. Alongside my technical skills, I have a creative edge with experience in video editing, graphic design, and UI/UX design, which allow me to approach projects from both technical and artistic perspectives. With strong leadership, teamwork, and communication abilities, I thrive in collaborative environments and am committed to making meaningful contributions to Artificial Intelligence and beyond.

## **SPECIAL SKILLS**



## **EDUCATION**

B.Sc in Computer Science with Artificial Intelligence Coventry university April 2024 - May 2025

HND in Computer Science with Artificial Intelligence National Institute Of Business Management April 2022 - April 2024 Distinction (3.83 GPA)

O/L and A/L Completion Dharmaraja College Kandy Completed in 2022







**Autonomation Engineer - Intern** 

MAS Active (Pvt) Ltd - Linea Intimo June 2024 - December 2024

As an Intern - Automation at MAS Active Linea Intimo in June 2024, I focused on improving manufacturing efficiency through automation. I analyzed workflows, identified areas for improvement, and contributed to implementing innovative solutions in a dynamic production environment.

# **Research and Development Engineering trainee**

Orel Group March 2024 - June 2024

Engaged as a Research and Development Engineering Trainee at Orel Group, contributing to innovative projects and solutions. Gain hands-on experience in research methodologies, prototype development, and problem-solving within a dynamic engineering environment.

# PROJECTS

# AI Canvas: An Integrated Platform for AI Image Generation and Enhancement

 Developed a full stack web application for my final project that uses AI models for image generation and enhancement, featuring Stable Diffusion XL for text-to-image generation, RealESRGAN for upscaling, and Rembg for background removal. The app also supports artistic style transfer using Stable Diffusion. It offers prompt enhancement, customizable parameters, and a user-friendly interface, all running locally to ensure affordability and data privacy—making it ideal for users with limited resources.

# Automated Package counting system using Image processing

 Developed an Automated Package Counting System at MAS Holdings using advanced image processing to enhance efficiency. A custom YOLO model was trained for accurate package detection, enabling real-time counting and reducing manual effort, time, and errors. The scalable solution improved productivity, lowered costs, and supported datadriven decision-making.

# Secure full stack Banking Application

 Developed a full-stack secure banking application with a responsive front-end built using React and a back-end powered by Python (FastAPI). The application utilizes an SQL database for efficient data management. Key features include user authentication, data encryption using AES, and secure file uploads. The project demonstrates expertise in modern web development, secure coding practices, and seamless integration between the front-end and back-end.

# Automated fertilizing drone using image processing

• Drones with high-resolution cameras captured images of paddy fields, identifying areas with crops using a custom model on Azure's Custom Vision. GPS-guided technology then precisely spread fertilizers, reducing waste and improving efficiency.





## Student Council NIBM Kandy Innovation Center (2023-2024)

- Finance Manager
- Event Coordinator
- Treasure

## Spectra 2023, Skills Expo 2023

- Treasure
- Team Coordinator

## Student Council NIBM Kandy Innovation Center (2022-2023)

- Social Media manager
- Editor
- Event Coordinator

#### REFREES

## Vimukthi Pathirana

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