



THISAL SANDAYURU

Computer Science Undergraduate

PERSONAL PROFILE

19-year-old ambitious undergraduate at the Informatics Institute of Technology (IIT), pursuing studies in technology since 2023. Early university entrant with a strong foundation in Python programming, Java and web development. Certified in Quantum Computing, Transformer-based NLP, Artificial Intelligence, Cloud Computing (Microsoft Azure), AI Prompt Engineering (DeepLearning.AI), ChatGPT for Developers, and Zero Trust Frameworks. Creative problem-solver blending leadership, adaptability, and a passion for emerging technologies.

CONTACT

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PERSONAL LINKS

[in LinkedIn](#)
[GitHub](#)
[GitHub](#)

SOFTWARE KNOWLEDGE

Python
Java
Java OOP
Web Development
Mobile Development
Data Base Handeling
UI & UX Designig

PERSONAL SKILLS

Creativity
Team building
Communication
Problem Solving
Leadership
Crtical Thinking
Time Managment

LANGUAGES

Sinhala
English

PROJECTS

MUC DIGITAL – SMART MUNICIPAL SERVICES PLATFORM

SDGP |sept 2025 -Present

Leading the development of a comprehensive web and mobile platform to fully digitalize Maharagama Urban Council services. Features real-time GPS-enabled garbage truck tracking with citizen notifications, online booking for public properties/vehicles and cemetery slots with integrated payments, one-tap emergency access, push announcements, and an AI chatbot. Built using Flutter/React, Node.js, Firebase (real-time & FCM), Google Maps API, and PayHere gateway to improve efficiency, transparency, and citizen satisfaction.

[MUCDigital](#)

WAVELINK MOBILE APP

UOW | Sept 2024 -Dec 2024

Gamified ocean conservation platform that turns beach cleanups and marine protection into daily missions with rewards, progress tracking, and social features. Focused on solving plastic waste, low youth engagement, and lack of measurable impact in traditional environmental initiatives.

[WaveLink](#)

CLIMATE CHANGERS – INTERACTIVE CLIMATE AWARENESS WEB APP

UOW / Feb 2025 - Jun 2025

Designed and developed a fully responsive educational web application to raise climate change awareness. Built interactive data visualizations of global temperature rise and CO₂ emissions using Chart.js, integrated sustainable living tips through dynamic modals, and implemented smooth animations and mobile-first design with HTML, CSS (media queries), and vanilla JavaScript.

[Climate Changers](#)

EDUCATION

B.SC. (HONS) COMPUTER SCIENCE

University of Westminster,
Collaboration with IIT/2024-2028

Second Year Modules

- 1.Object Oriented Programming - 67%
- 2.Database Systems - 80%
- 3.Software Development Group Project - 56%
- 4.Advanced Client Side Development - 78%
- 5.Human Computer Interaction (HCI) - 91%
- 6.Client-Server Architectures -N/A
- 7.Profesional Development (Part A) - 100%

First Year Modules

- 1.Software Development I (Python) -69%
- 2.Software Development II (Java) - 78%
- 3.Computer Systems Fundamentals -90%
- 4.Trends in Computer Science - 63%
- 5.Web Design and Development - 60%
- 6.Mathematics for Computing - 64%

FOUNDATION CERTIFICATE PROGRAMME IN SOFTWARE ENGINEERING

Informatics Institute of Technology
2023-2024

Pass-Merit

GCE ORDINARY LEVEL

Mahanama College
Colombo 03,Sri Lanka

- 1. Mathematics - A
- 2.Sinhala Lang. & Lit. - A
- 3.History - A
- 4.Commerce - A
- 5.Health Science - A
- 6.Drama & Performing Arts - A
- 7.English - B
- 8.Science - B
- 9.Buddhism - B

TRAFFIC INSIGHTS AND VISUALIZATION FOR LOCAL GOVERNANCE PLANNING

UOW | sept 2024 -Dec 2024

In this project, I developed Python software for analyzing traffic flow data from Elm Avenue/Rabbit Road and Hanley Highway/Westway—two major intersections under local council authority. The app simplifies CSV file selection and analysis, offering detailed insights into vehicle types, traffic patterns, and weather conditions.

Traffic Analyzer

DESIGNING CONSTRUCT CONNECT: A TALENT PLATFORM FOR CONSTRUCTION

IIT | Jan 2023 -March 2024

I was a part of, in-depth research on talent acquisition in the construction industry, leading to the conceptual design of Construct Connect—a platform bridging job seekers, recruiters, and professionals. Using Figma, I crafted an intuitive frontend UI focused on seamless matching and networking.

CERTIFICATIONS

- PYTHON COURSE BY HACKER RANK
- JAVA COURSE BY HACKER RANK
- AI FOR BEGINNERS BY HP LIFE
- PROMPT ENGINEERING FOR DEVELOPERS BY DEEPLARNING
- INTRODUCTION TO ICT SYSTEMS BY OPEN UNIVERSITY
INTRODUCTION TO CYBERSECURITY BY CISCO LABS
- PYTHON PROGRAMMING BY UOM
- GATAWAY TO QUANTUM COMPUTING BY ALISON
- FOUNDATION PROGRAM FOR SOFTWARE ENGINEERING STUDENTS BY INFOMATICS INSTITUTE OF TECHNOLOGY
- INTRODUCTION TO TRANSFORMER-BASED NATURAL LANGUAGE PROCESSING BY NVIDIA
- PROFESSIONAL CERTIFICATE IN MACHINE LEARNING BY IIT PDU

VOLUNTEER EXPERIENCE

- A member of IIT Rotaract club
- A member of IEER RAAS
- A member of IEEE Computer Society

REFERENCES

Chathuri Udagedara

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Informatics Institute of Technology

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