



# THISAL SANDAYURU

Computer Science Undergraduate

## CONTACT

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## PERSONAL LINKS

[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

## 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.

## 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 CO<sub>2</sub> 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.S.C. (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. Professional 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 DEEPMODELLING
- INTRODUCTION TO ICT SYSTEMS BY OPEN UNIVERSITY  
INTRODUCTION TO CYBERSECURITY BY CISCO LABS
- PYTHON PROGRAMMING BY UOM
- GATEWAY 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

Lecturer  
Informatics Institute of Technology

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