



# LIVIRU WEERASINGHE



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## PROFILE

Final-year Computer Science undergraduate at University of Colombo School of Computing (UCSC) with practical experience as a Software Engineer Intern at WSO2, contributing to enterprise-level identity and authentication platforms. Strong in Java and backend development, with experience building security-critical, production systems, and a growing interest in Machine Learning and data-driven systems through my final-year research in reinforcement learning. Motivated to build scalable, reliable software systems in real-world environments.

## EXPERIENCE

### Software Engineer Intern, WSO2

Nov 2024 - Apr 2025

- Implemented first-class AMR support in WSO2 IS and Asgardeo, ensuring RFC-compliant authentication
- Enabled authenticator-level AMR handling for Phase 1 in production identity platforms
- Designed ACR support architecture to enforce authentication security levels
- Collaborated with senior engineers to ensure backward compatibility and reliability.

### Undergraduate Teaching Assistant, UCSC

May 2025 - Nov 2025

- Undergraduate Teaching Assistant for Problem Solving Strategies & Computational Approaches module.
- Conducted tutorial sessions and lectures, guiding students through problem-solving techniques
- Assisted in explaining concepts, exercises, and assessments

## PROJECTS

### Final Year Research Project - Reinforcement Learning

2025 May - Present

- Conducting a comprehensive literature review to identify gaps in ML-based hearing-aid optimization within an underexplored clinical domain
- Designing a novel, human-in-the-loop reinforcement learning system for personalized hearing-aid prescriptions
- Ongoing work includes real-world clinical testing and validation to assess safety, effectiveness, and patient-specific outcomes

### Modurix Lab

Source: 2025 Sep - Present

- Active member of Modurix Lab, where software based solutions are provided for real world problems.
- Currently developing an event management system, focusing on clean architecture and effective teamwork
- Engaged in collaborative development practices (design discussions, task ownership, code reviews)

### Utility Saga - Java

Source: 2023 May - 2024 Apr

- Developed a utility management solution for Sri Lanka, including billing, consumption tracking, and customer management features.
- Integrated IoT-based meter readings for real-time data collection and implemented an ML-driven recommendation module for optimized usage insights.
- Focused on object-oriented design, backend logic, and relational data modeling to ensure efficient and scalable system performance for real-world utility operations.

## Kindcoin - MERN Stack

Source: 2024 June - 2024 Nov

- Developed a web-based donation platform enabling users to contribute and track monetary and material donations through a centralized system.
- Implemented a blockchain-based reward mechanism to transparently acknowledge and incentivize donor contributions.
- Integrated text extraction and recommendation features to help users identify relevant and suitable donation opportunities efficiently.

## EDUCATION

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**University of Colombo School of Computing**  
**Bsc (Hons) in Computer Science**  
**GPA - 3.50** (At the end of 6<sup>th</sup> Semester)

May 2022 - May 2026 (Expected)

**Royal College, Colombo 07**  
**GCE A/L (2020)** : Z-Score - 1.8222, Combined Mathematics - A, Physics - B, Chemistry - B  
**GCE O/L (2017)** : 9As

2007 - 2020

## PROFESSIONAL QUALIFICATIONS

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**Certificate in Business Accounting** 2022  
CIMA Certificate in Business Accounting

## SKILLS

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- **Languages:** Java, Javascript, Python, SQL, C++, C
- **Back End Technologies:** Spring, Nodejs, Express.js, Django
- **Front End Technologies:** React.js, HTML, CSS
- **Tools:** Linux, Git, AWS, Docker, Kubernetes, Postman
- **Concepts:** Software Engineering, Object Oriented Programming, Software Design Patterns, MVC, Middleware Architectures

## TECHNICAL ACHIEVEMENTS

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- 5th Place - Algothon Organized by SLIIT Jan 2024
- Finalists - RealHack 5.0 Organized by University of Kelaniya Apr 2024
- Top 5 - Codesprint - Ideasprint, Sprint Pitch 2022 - 2023

## LEADERSHIP & EXTRA CURRICULAR ACTIVITIES

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### Leadership

#### AIESEC in University of Colombo

- Acted as a team leader in a project which collaborated with volunteers globally.

#### Royal College, Colombo 07

- Junior Steward and Junior Prefect, contributing to student leadership and school-level administration.

### Extra Curricular Activities

#### University of Colombo

- Represented university chess team and received colours for chess (2022, 2023)
- Captained faculty cricket and chess teams

#### Royal College, Colombo 07

- Member of all- island winning college chess team and member of college cricket team
- Represented Sri Lanka for chess; Internationally rated chess player

## REFERENCE

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### Prof G D S P Wimalaratne - Professor

Univeristy of Colombo School of Computing  
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### Dr. K A K T Karunanayaka - Senior Lecturer

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