

# G C H Oshan Madawa

Undergraduate, Computer Science and Engineering

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## ABOUT ME

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A self-driven and dedicated individual with a strong passion for achieving goals through hard work and determination. I thrive in dynamic environments, embracing challenges as opportunities to grow and excel. Committed to continuous learning, I actively seek to expand my skill set and adapt to emerging trends. As a collaborative team player with a focus on delivering impactful results, I bring a proactive mindset and a deep enthusiasm for contributing to meaningful projects.

## EDUCATION

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- **University of Moratuwa** Moratuwa, Sri Lanka  
*BSc. Eng (Hons), Computer Science & Engineering.; CGPA: 3.45 (Minor in Mathematics)* 2021 – Present
- **Rahula College** Matara, Sri Lanka  
*G.C.E. A/L(Physical Science Stream); 3As; Z-Score: 2.58; IR: 142* 2013 – 2019

## EXPERIENCE

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- **Karmo (Pty) Ltd** Brisbane, Australia  
*Software Engineering Intern* Nov 2023 – May 2024 (6 months)
  - **Worked on Three projects**
    - \* Full-stack development of the flagship product Vouch and MyKarmo using modern web technologies.
    - \* Designed and implemented a Customer Score Engine that reduced onboarding time by 30% and improved segmentation accuracy.
    - \* Built automated test suites using Cypress in the Test Automation Project, enhancing test coverage and accelerating release cycles.
  - **Tech Stack:**
    - \* **Frontend:** *React TypeScript, NextJS, JavaScript, and Tailwind CSS.*
    - \* **Backend:** *Nodejs and Express.*
    - \* **Database:** *PostgreSQL.*
    - \* **Version Control & Tools:** *GitLab, JIRA, and Visual Studio.*
- **Director of Web**  
*UoM Leos 22/23* June 2022 – June 2023
  - Conducted a Web Development Workshop for Leos
  - Started a Web Development Competition called Devathon 1.0
  - Developed the Leo Scroll App

## PROJECTS

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- **Explainable ML models for analyzing Emotional Valence from fMRI data:** (Final Year Project - Ongoing)  
Focused on enhancing model explainability for predicting valence from fMRI data, with the implementation of Graph Neural Networks (GNN) for improved model performance and interpretation.  
*[Tech Stack :- TensorFlow, Keras, Scikit-learn, Matplotlib, Numpy, LRP, SHAP]*
- **Real-Time Hiker Monitoring App (github)** April 2025 – May 2025  
TrailGuard is a mobile application designed to monitor and ensure the safety of hikers in remote areas. It focuses on efficient integration of mobile sensors, real-time activity recognition, local and cloud data synchronization, and critical safety features such as SOS alerts and emergency contact configuration.  
*[Tech Stack :- React Native, JavaScript, FireBase]*

- **AI-Powered Mock Interview Platform (github)**

March 2025 – May 2025

Developed a full-stack web platform that simulates real-time technical interviews using AI. The system generates custom interview questions by analyzing user CVs with AI, then conducts an interactive video meeting where an AI avatar asks the questions using text-to-speech. Built peer-to-peer video chat with WebRTC and WebSocket signaling, enabling users to respond via mic and camera for realistic practice sessions.

[Tech Stack :- Spring Boot, ReactJS, DeepSeek API, WebRTC, WebSockets]

- **Driving License Test Application (github)**

Aug 2023 – Oct 2023

DriveSmart is an innovative online learning web application and mobile application designed to revolutionize the process of preparing for driving license tests in Sri Lanka.

[Tech Stack :- ReactJS, React Native, NodeJS, MongoDB, ExpressJS, AWS, Bootstrap]

## SKILLS

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- **Programming Languages**

*Python, JavaScript/TypeScript, C++, Java*

- **CI/CD and Version Controlling**

*Git, Docker*

- **Technologies/Practices**

*ReactJS, NodeJS, Spring Boot, NextJS, ExpressJS, React Native, Linux*

- **Database Management:**

*PostgreSQL, MySQL, Firebase Firestore, MongoDB*

- **Software Development Methodologies**

*Agile (Scrum)*

- **Soft Skills**

*Teamwork, Critical Thinking, Problem Solving (Hackerrank Certifications), Time Management*

## COURSES AND CERTIFICATIONS

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- **Supervised Machine Learning: Regression and Classification :- DeepLearning.AI(cert)**

- **JavaScript Essential Training :- LinkedIn(cert)**

- **Front-End Web Development with React :- Coursera**

- **Introduction to Large Language Models :- Google(cert)**

## ACHIEVEMENTS

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- **Dean's List :** *Semester 7 (SGPA 3.84)*

- **mSpace Code Blast National Hackathon 2023 :** *Finalist - Built a Multi language Translation Service*

- **Sports :** *University Badminton Team Player (UMISF 2023)*

- **Extra Curricular Activity :** *Youtuber / Influencer*

*Cultivated a YouTube channel (65K+ subscribers) and TikTok account (535K+ followers) with a loyal fan base by producing viral content on AI tools, innovative apps, and tech tricks garnering 100M+ views and strong engagement.*

## REFEREES

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