

Gishan Damindu

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PROFILE SUMMARY

A dedicated and self-motivated individual with a software engineering background, eager to embrace challenges and quickly adapt to new technologies. A collaborative team player with a proactive mindset, willing to take leadership.

EDUCATION

University of Moratuwa

Moratuwa, Sri Lanka

B.Sc. Engineering (Hons.) in Electronic and Telecommunication Engineering

2021 - Present

GPA: 3.51/4.0

Relevant Coursework: Neural Networks, Deep Learning, Computer Vision, Data Structures & Algorithms

Coursera

Online

Object-Oriented Programming Specialization (University of London)

Databases and SQL for Data Science with Python (IBM)

Foundations of Data Structures and Algorithms Specialization (University of Colorado Boulder)

Deep Learning Specialization (DeepLearning.AI)

Machine Learning Specialization (Stanford University)

Rahula College

Matara, Sri Lanka

GCE Advanced Level - Physical Science Stream

2016 - 2019

3As — Island Rank: 50 — District Rank: 5

RELEVANT EXPERIENCE

Trainee Software Engineer

Dec 2023 - May 2024

NCINGA PTE LTD, Colombo, Sri Lanka

WebRTC Full-Stack Application:

- Contributed as a junior team member to develop a custom, bidirectional, cost-effective communication platform using 100% open-source tech stacks, including **Spring Boot (Java)**, **Go**, **WebRTC** protocol, **React.js**, and **Next.js**, enabling rapid deployment cycles.
- Contributed significantly to building a highly responsive front-end using **Figma** and **MUI** for intuitive UI/UX design. Developed a scalable, microservices-based backend system that reduced code complexity by over 50% compared to the existing system. Additionally, implemented a secure and efficient testing and deployment pipeline leveraging **Keycloak**, **MySQL**, **Docker**, and **AWS EC2** to minimize latency.

Cisco Meraki Captive Portal:

- Implemented strategic enhancements to create an effective captive portal via **Cisco Meraki Cloud Platform** and **MERN stack** technologies; findings highlighted critical areas in API call management that addressed top issues causing delays.

KEY PROJECTS

Detection and Identification of UAV Swarms

2024 Feb – Present

- Developed a framework for identifying UAVs using radar signal processing and deep learning techniques.
- Implemented algorithms to detect, classify, and estimate UAV speed and direction with high accuracy.
- Validated system performance through experiments using real radar datasets.
- Tools and Technologies:** Python, MATLAB, Deep Learning, Signal Processing

Gamified Energy Conservation Platform

2024 May – 2024 June

- Designed an interactive platform to promote energy conservation through gamification.

- Developed features such as user dashboards, energy savings tracking, and reward mechanisms.

- **Tools and Technologies:** ReactJS, Spring Boot, Unity, MySQL

- **Video Chat Application**

2024 Feb – 2024 April

- Built a secure, bidirectional video chat application tailored for real-world insurance use cases.

- Focused on ensuring secure client communications and scalability.

- **Tools and Technologies:** ReactJS, MySQL, Keycloak, Go

- **Product Management System**

2024 May – Present

- Developed a CRUD application for managing product lifecycles using a microservices architecture.

- Integrated secure authentication and role-based access control mechanisms.

- **Tools and Technologies:** Spring Boot, MySQL, Keycloak, Docker

- **Densely Packed Product Detection**

2024 May – Present

- Applied computer vision models to detect retail items in densely packed scenes.

- Improved detection accuracy through model fine-tuning and post-processing techniques.

- **Tools and Technologies:** Python, OpenCV, Deep Learning

- **Language Translation Application**

2024 May – Present

- Fine-tuned a transformer model for English-to-Sinhala translation tasks.

- Collected and preprocessed a bilingual dataset to enhance model performance.

- **Tools and Technologies:** Python, Hugging Face, PyTorch, NLP

- **LLM RAG Chatbot**

2024 May – Present

- Developed a chatbot capable of answering questions from provided documents using retrieval-augmented generation techniques.

- **Tools and Technologies:** Python, Hugging Face, PyTorch, NLP, Ollama, Langchain

- **Flower Exchange Platform**

2024 May – Present

- Built a trading application with reduced code complexity and 60% improved performance over Java-based platforms.

- **Tools and Technologies:** C++

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, C++, Go

- **Frameworks & Tools:** Spring Boot, React.js, Express.js, Docker, AWS

- **Technologies:** WebRTC, Microservices, REST APIs, Git

- **Machine Learning:** TensorFlow, PyTorch, Computer Vision, Natural Language Processing

ACHIEVEMENTS

- Champions, SPARK Challenge 22/23 - Electronic Engineering Competition

- 5th Place, Technobots 2023 - Robotics Competition

- Mahapola Higher Education Merit Scholarship

LEADERSHIP EXPERIENCE

- Manager of Operations, Electronic Club - University of Moratuwa

May 2023 – May 2024

- Committee Member, Electronic Club

Aug 2022 - May 2023

- Committee Member, Leo Club - University of Moratuwa

May 2021 - Dec 2022

- Team Leader, Rahula College Debate Team

Jun 2016 - Aug 2018