Induwara Gayashan Morawakgoda

Electronic and Telecommunication Engineering Final Year Undergraduate,
University of Moratuwa

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EDUCATION

University of Moratuwa Moratuwa, Sri Lanka
B.Sc. Engineering (Hons.) in Electronic and Telecommunication Engineering *May 2022 - Present*
GPA - 3.73/4.0
- *Deep Learning for Vision, Pattern Recognition, Neural Networks and Fuzzy Logic, IoT
  Data Structures and Algorithms, Modular Software Development, Software Design Competition*

Sivali Central College Ratnapura, Sri Lanka
GCE Advanced Level - Physical Science Stream; Z-Score 2.3877 *Jan 2018 - Nov 2020*
- *Combined Mathematics, Physics, Chemistry*

PROFESSIONAL EXPERIENCE

Software Engineer Intern - WSO2 (Pvt) Ltd (Internship) *Dec 2024 – May 2025*
- Worked in the Integration team and contributed to the development of:
  * Ballerina HubSpot CRM Commerce Carts Connector 🔗
  * Ballerina ETL Package 🔗

PROJECTS

NeoCare - Contactless Neonatal Health Monitoring System (Final Year Project) ⓞ *Ongoing*
- Designing a real-time, contactless neonatal monitoring system to estimate heart rate, blood oxygen level (SpO_2), and jaundice status using remote photoplethysmography and deep learning with on-device inference, privacy-preserving video processing, and mobile app integration.
- Tech Stack: Python, PyTorch, OpenCV, FastAPI, React Native, YOLO, PhysNet, MobileNet

PowerLens - Transformer Maintenance Record Keeper ⓞ *Jul 2025 - Nov 2025*
- Built an AI-assisted transformer inspection platform for thermal anomaly detection, with automated digital maintenance reporting as a part of Software Design Competition module in semester 7.
- Tech Stack: Python, YOLOv11, TypeScript, React, Java, Spring Boot, MySQL

CodeVision AI - Intelligent Source Code Analyzer ⓞ *Jul 2025*
- Developed an AI-powered web application that enables intelligent analysis and exploration of GitHub repositories through natural language conversations.
- Tech Stack: Python, Flask, OpenAI, LangChain, Bootstrap, Chroma

MediBot - AI Medical Assistant ⓞ *Jul 2025*
- Developed an AI-powered medical chatbot that provides accurate health information using RAG technology and a curated medical knowledge base.
- Tech Stack: Python, Flask, OpenAI, LangChain, Bootstrap, Pinecone

Real State Booking System ⓞ *Feb 2025 - Jul 2025*
- Developed a Real Estate Booking System using the MERN stack, integrating a chat feature for seamless user interaction.
- Tech Stack: JavaScript, React, Node.js, MongoDB

IntelliPrep - Q&A Creator ⓞ *Jun 2025*
- Developed a web application that generates interview-style Q&A pairs from uploaded PDF documents using OpenAI models.
- Tech Stack: Python, FastAPI, OpenAI, LangChain, JavaSript, React, FAISS

Ballerina ETL Package (Internship Project) ⓞ *Jan 2025 - May 2025*
- Developed the Ballerina ETL package providing APIs for data categorization, cleaning, enrichment, filtering, security, and unstructured data extraction, enabling seamless data processing workflows.

- Tech Stack: Ballerina, Java, OpenAI

RFID Based Inventory Management System $\bigcirc$ *Nov 2024 - Dec 2024*
- Developed an RFID-based inventory management system as part of the IoT module in Semester 5, enabling automated tracking and real-time inventory updates.
- Tech Stack: JavaScript, React, Java, Spring Boot, MySQL

ClariFi - Medical Report/Scan Analyzing Assistant AI $\bigcirc$ *July 2024*
- Developed an AI-powered assistant to analyze medical reports and scans, providing insights and automated suggestions to users.
- Teck Stack: JavaScript, React Native, Python, Django, Llama, Firebase

Web Application for a PCB Manufacturing Company $\bigcirc$ *Apr 2024 - May 2024*
- Developed a web app as part of the Modular Software Development module in semester 4 and led a team to work on the customer order management module of the web app.
- Tack Stack: JavaScript, React, Java, Spring Boot, MongoDB

COURSES AND CERTIFICATIONS

Coursera   Online
Machine Learning Specialization(DeepLearning.AI) 🔗   *Dec 2023 - Feb 2024*

KodeKloud   Online
Docker Training Course 🔗 *, Kubernetes Training Course* 🔗   *Feb 2025*

OpenCV   Online
OpenCV Bootcamp 🔗*, TensorFlow-Keras Bootcamp* 🔗*, PyTorch Bootcamp* 🔗   *Jun 2025*

ACHIEVEMENTS AND AWARDS 🔗

Data Crunch at CodeJam CSE 2025 |Finalists   *May 2025*
- Reached the finals of the Data Crunch ML Hackathon, placing us among the top 10 teams.

Comfix TechCom Ideathon |Finalists   *Aug 2024*
- Reached the finals of the Comfix TechCom Ideathon, placing us among the top 10 teams.

SLIoT Challenge 2023 |Semifinalists   *Feb 2024*
- Developed a machine failure detection system and reached the semifinals (Top 20).

Dean's List
- Semester 2 (SGPA: 3.84/4.00), Semester 4 (3.96/4.00), Semester 6 (4.00/4.00)

SKILLS SUMMARY

Languages: English (professional proficiency), Sinhala (native proficiency)

Programming Languages: Python, Java, Ballerina, JavaScript, Matlab

Soft skills: Project Management, Problem Solving, Adaptability

VOLUNTEERING EXPERIENCE

IEEE Robotics and Automation Society - University of Moratuwa

Co-Lead - Finance Committee   *Jan 2025 - Present*
Member - Finance Committee   *Dec 2023 - Dec 2024*

Electronic Club - University of Moratuwa
External Relationship Coordinator - Main Branch   *Oct 2023 - Sep 2024*

REFERENCES

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