

# J.V. RANSIKA

+94 72 083 7749

[jvgransika@gmail.com](mailto:jvgransika@gmail.com)

“Jayasiri”, Kosnilgoda, Morawaka.

<https://github.com/jv-ransika>

[www.linkedin.com/in/j-v-ransika/](http://www.linkedin.com/in/j-v-ransika/)

[www.itrsransika.com](http://www.itrsransika.com)

## ABOUT ME

Second-year AI undergraduate with hands-on experience designing and developing end-to-end AI applications and cloud-based solutions for real-world business challenges. I am currently deepening my expertise in low-level AI implementation, including machine learning algorithms, model development, LLMs, and LLM architecture, with the goal of building intelligent systems from foundational models through to complete, production-ready applications.

## EDUCATION

### Bachelor of Science Honours in Artificial Intelligence

2024–Present

University of Moratuwa

- Activities and societies: Morasprit, IEEE

### GCE Advanced Level – Physical Science Stream

2023

Rahula College, Matara

- Achieved 3As, z-score 2.29

## EXPERIENCE

### Intern – Trainee AI Engineer

Feb 2026–Present

Jaya Consulting Inc (JYC)

- Collaborated with business-domain experts to identify workflow challenges and develop supportive AI-powered solutions.
- Designed and delivered three end-to-end internal applications.
- Architected AWS serverless and Docker-based solutions using managed services and researched AI orchestration frameworks to support business development.

### Backend Developer

2024–2025

MoraSpirit | Web and Technology Pillar

- Maintained MoraSpirit’s official website ([moraspirit.com](http://moraspirit.com)).
- Contributed to enhancing the backend and performance of [sports.moraspirit.com](http://sports.moraspirit.com).
- Developed a scalable backend for the Fit and Furious web application
- Reference: [Certification of Employment](#)

## ACHIEVEMENTS

### Best Pillar Member – Web and Technology Pillar

2024–2025

MoraSpirit

- [View Certificate](#)

## PROJECTS

### Self-Learning Omi Card Game Agent

2024

- Built a reinforcement learning agent for a custom card game using a neural network (CardGameState encoder + PolicyNetwork) trained with the REINFORCE algorithm; implemented in Python and PyTorch.
  - <https://www.itsransika.com/projects/omi-ai-agent>

### VerdeAI – AI Powered ISO Compliance Assistant – Ongoing

2026 – present

- Developing a multimodal ESG auditing system using NLP, Agentic RAG, Intelligent Document Processing (IDP), and OCR to automate ESG compliance analysis, reducing manual document review effort by up to 80% through automated extraction, compliance gap detection, and retrieval-grounded validation to minimize AI hallucinations.

### Google Maps Scraper

2023

- Built a scalable Google Maps data-extraction system for a UK-based client through Fiverr using parallel browser workers, multiprocessing, multithreading to efficiently process large volumes of business listings. Integrated rotating proxies, controlled request scheduling to reduce request failures, and improve reliability during long-running operations.
- The system processed approximately 1.5 million business listing records during a one-week production run, with structured data export.
  - <https://www.itsransika.com/projects/google-map-scraper>

### Multi-Agent Storyworld Simulator – Ongoing

2025 – present

- Built a stateful, highly multi-agent narrative simulation engine that orchestrates autonomous character agents (start, env, character) with short/long-term memory, state-graph workflows, and SQLite checkpointing for resumable, goal-directed episodic stories.
  - <https://www.itsransika.com/projects/story-engine>

### CardMaster – AI-Powered Omi Playing Robot

2024 – 2025

- Built an autonomous Omi-playing robotic system using YOLO, Reinforcement Learning, Flutter, TensorFlow Lite, ONNX Runtime, and ESP32-CAM to detect cards, make strategic decisions in real time, and interact with human players. Trained on 10,000+ images and achieved an ~85% win rate
- Led a five-member team during my first year at university, coordinating task allocation, development progress, system integration, testing, and team communication to successfully complete the project.
  - <https://github.com/jv-ransika/CardMaster>

## CERTIFICATIONS

### Architecting Solutions on AWS

May 2026

Amazon Web Services / Coursera

- Credential: [Q1BOGFDS8JN8](#)

### Google IT Automation with Python Specialization

Mar 2026

Google / Coursera

- Credential: [RFHQMDNSWFGY](#)

### C Programming with Linux Specialization

Jun 2024

Dartmouth College & Institut Mines-Télécom / Coursera

- Credential: [MJWKRQNCVQJR](#)