

Adithya Séan Bandara Ekanayaka

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PROFESSIONAL SUMMARY

Results-driven Software & AI Engineer with a proven track record of deploying production-grade computer vision, full-stack, and GenAI solutions. Certified Oracle Cloud Infrastructure (OCI) Generative AI Professional and finalist in major engineering hackathons (e.g., Commercial Bank International Hackathon, Rootcode Tech-Triathlon). Experienced in architecting scalable microservices, C++ edge-inference modules, and custom offline-first AI web components.

TECHNICAL SKILLS

Programming:	Python, Java, C++, C#, JavaScript, PHP, SQL, HTML, CSS
AI/ML:	LLM Fine-Tuning (LoRA, PEFT, Unsloth, Adam), PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy
Web & Backend:	Spring Boot, FastAPI, Node.js, React (Intermediate), Flask, Express.js, jQuery
DevOps & Cloud:	Docker, Kubernetes, CI/CD, Git, GitHub, GitLab, Oracle Cloud (OCI), Azure, AWS, GCP
Databases:	SQL, Oracle DB, PostgreSQL, MySQL, MongoDB, Firebase, SQLite
Robotics & IoT:	Arduino, Raspberry Pi, ESP32, ROS, FreeRTOS, Microcontrollers (PIC)

PROFESSIONAL EXPERIENCE

Araaya Business Solutions

Software Engineer

Colombo, Sri Lanka

Aug 2025 – Present

- **Client-Side Automation & Integration:** Engineered a dynamic, stateful input automation system for the core enterprise platform featuring fuzzy matching, AJAX-based field population, validation, and batch telemetry tracking. Developed custom voice- and vision-assisted form-filling web components utilizing IndexedDB persistence for offline-first support.
- **Enterprise Search & Migration:** Spearheaded the migration of the enterprise search configuration. Containerized search services using Docker, resolved container network configurations, and optimized query indexing for national identity lookup services.
- **Backend Modernization & API Refactoring:** Spearheaded the modernization of a legacy Java Struts web application into a Spring Boot architecture. Refactored backend services to resolve database compatibility issues during Object-Relational Mapping (ORM) migrations, and enhanced communication services by implementing connection timeouts and input normalization.
- **AI Workflows:** Integrated large language models (LLMs) dynamically into localized workflow tools, providing configurable model selection interfaces with persistent local storage.

Sri Lanka Telecom

Intern Software Engineer

Colombo, Sri Lanka

Feb 2025 – Aug 2025

- **Attendance Platform Integration:** Developed and deployed a real-time, hybrid face recognition attendance system serving enterprise-wide workforce management needs.
- **Edge Inference:** Engineered a high-performance C++ edge inference module for facial recognition model deployment, minimizing latency and maximizing hardware efficiency on resource-constrained edge/IoT devices.
- **APIs & Dashboards:** Built a scalable backend API using **FastAPI** and **Python** to handle real-time telemetry, user registration, and attendance logging, integrating with an interactive **React** dashboard.
- **Hybrid Architecture:** Designed the hybrid cloud-edge architecture, ensuring offline resilience and secure, real-time data sync with central databases.

HACKATHONS & KEY PROJECTS

Commercial Bank International Hackathon (Top 8 Finalist)

May 2024 – Present

<https://app.apixplatform.com/h1/combank-singpt>

- Led a team of developers to build **sinGPT**, a specialized conversational LLM tailored for "Singlish" (Sinhala-English hybrid language) queries, ranking in the **Top 8 out of 30 teams** globally.
- Orchestrated parameter-efficient fine-tuning (PEFT) on **LLaMA 3.1 8B** using **LoRA** and **Unsloth**, optimizing GPU memory footprint and reducing training time by **60%**.
- Designed the dataset curation and pre-processing pipeline for Sinhala-English hybrid code-mixed text, addressing linguistic nuances and tokenization gaps.

Rootcode Tech-Triathlon 2025 (Finalist)

Aug 2025 – Sep 2025

<https://tech-triathlon.rootcode.io/>

- Selected as a finalist team (**Top 8 out of 150+ teams / 1,000+ participants**) in a national engineering hackathon.
- Contributed to rapid prototyping, custom AI integrations, and full-stack development in a multi-stage challenge.

Next Step Career Guidance System

Dec 2024 – Present

<https://github.com/adithyasean/Next-Step>

- Architected a career guidance platform using a **Spring Boot** microservices architecture, containerized with **Docker**, and orchestrated via **Kubernetes**.
- Built and integrated machine learning models (NLP/recommendation systems) to provide personalized career paths based on user skills, interests, and market demand.

Enhanced Vision for Security Cameras

Jul 2024 – Aug 2024

<https://github.com/adithyasean/Enhanced-Security-Vision>

- Developed a lightweight, real-time face detection system optimized for low-light conditions using **OpenCV** cascade classifiers, achieving high efficiency on resource-constrained embedded devices.

EDUCATION & ACADEMIC CREDENTIALS

National Institute of Business Management (NIBM)

BSc (Hons) Computing (Awarded by Coventry University, UK)

Colombo, Sri Lanka

Nov 2024 – Present

- Focus: Advanced Computing, Software Engineering, and Machine Learning.

National Institute of Business Management (NIBM)

Higher National Diploma in Software Engineering

Colombo, Sri Lanka

Graduated 2024

National Institute of Business Management (NIBM)

Diploma in Software Engineering

Colombo, Sri Lanka

Graduated 2023

Mahanama College

G.C.E. Advanced Level Examination

Colombo, Sri Lanka

2019 – 2022

CERTIFICATIONS & AFFILIATIONS

- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional** (Jul 2024)
[Oracle ShareBadge Link](#)
- **Linux Foundation Introduction to Linux** (Sep 2025)
- **Google Developer Program** – Active Participant (Jun 2024 – Present)
- **IEEE Student Member** (2024 – Present)

PROFESSIONAL RECOMMENDATIONS

- **Dr. Thisara Weerasinghe** • Head of Computing, NIBM
Email: thisara@nibm.lk • [LinkedIn Profile](#)
- **Dr. Mrs. Buddhima Subasinghe** • CREST Module Professor, NIBM
Email: buddhima@nibm.lk • [LinkedIn Profile](#)
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