



YASIRU EDIRIMANNA

Computer Engineering Undergraduate



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ABOUT ME

Computer Engineering undergraduate with hands-on experience in AI, embedded systems, and full-stack web development, building real-time applications using Python, React, AWS, and machine learning. Motivated to contribute as a graduate engineer by delivering scalable, reliable solutions while continuously learning in real-world engineering environments.

EDUCATION

Bachelor of Science in Engineering (Computer Engineering)

2022 - 2026

University of Peradeniya

GPA 3.4

GCE A/L

2020

D.S. Senanayake College Colombo 7

A/L 3A's

PROJECTS

PEBO – AI Desk Assistant Robot (Group Project)

Role: Voice assistant, emotion detection, user recognition, AWS backend

An **interactive desk assistant robot** that offers emotional support, entertainment, task management, and voice assistant.

Tech: Raspberry Pi 4, Python, AWS, Gemini API, OpenCV

- Selected as a Top 10 IESL Undergraduate Project – 2025
- Won 3rd Place at I to I Competition – University of Peradeniya
- Showcased at Techno 2025 Exhibition and Engex 2025

Mona Dashboard – Factory Production Monitoring System (Group Project)

The Mona Dashboard project addresses the production challenges of factories manufacturing plastic toys using mold in real time

Tech: MongoDB, React, Node Js

AI-Driven Automated Feedback & Tutoring System For Higher Education (Group Project)

Conducting literature review on AI-in-Education and LLM tools. Designing plugin for automated, personalized feedback and tutoring

Tech: Python, LLM APIs, EdTech tools

Air Quality Analyser – Hybrid LSTM & Fuzzy Logic Model (Group Project)

Designed a hybrid forecasting model combining LSTM neural networks with Fuzzy Logic Systems to improve air quality prediction accuracy.

RELEVANT EXPERIENCE

Casual Instructor – CO226 (Database Systems)

Department of Computer Engineering, University of Peradeniya | 2024

CERTIFICATIONS

- Microsoft Azure Machine Learning for Data Scientists – Microsoft
- Advanced React – Meta
- React Basics – Meta
- Databases and SQL for Data Science with Python – IBM
- Certification Program in Microsoft – SLIT
- Spoken English for Professional Excellence – Aquinas College of Higher Studies

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

- University Air Rifle Team – Represented University of Peradeniya
- Participated in coding competitions and project competitions, including:
 - Coders V 11.0
 - IESL UIY (Top 10 projects)
 - I to I Competition – 3rd Place – University of Peradeniya
- Showcased PEBO project at Techno 2025 Exhibition and Engex 2025
- Demonstrates discipline, teamwork, and competitive spirit

SKILLS

- Programming & AI: Python, C, JavaScript, LLMs, Prompt Engineering, Machine Learning, Embedded Systems (Raspberry Pi, Microcontrollers)
- Web & Software: React.js, Web Application Development, Front-End Development, Web Accessibility, UI/UX Design, SEO Fundamentals, Color Theory, Typography
- Cloud & Tools: AWS, Azure, Git, MATLAB, SQL, MongoDB
- Soft Skills: Teamwork, Problem-Solving, Communication

REFERENCES
