

Lucius Wilbert Tjoa

AI Engineer seeking a full-time, permanent role

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PERSONAL SUMMARY

Results-driven **AI Engineer** with **two years** of technical experience in designing, developing, and deploying custom **AI models** and **Retrieval-Augmented Generation (RAG)** pipelines. Skilled in building end-to-end intelligent systems, integrating **Large Language Models (LLMs)** using **LangChain**, and fine-tuning models with **PyTorch** for specialized tasks. Proficient in **Python**. Winner of two AI-related hackathons.

EDUCATION

Asia Pacific University of Technology & Innovation (APU)

Kuala Lumpur, Malaysia

Bachelor of Computer Science (Hons) (Artificial Intelligence)

Cumulative GPA: 3.92

- Vice Chancellor's (VC) List. Excellent Academic Achievement in the Academic **Year 2023/2024** September 2023 - September 2024 (GPA Year 1 : 3.83) (GPA Year 2 : 3.92)

WORK EXPERIENCE

AI Engineer at CelcomDigi

June - October 2025

- Built and deployed **Retrieval-Augmented Generation (RAG)** pipelines for **Large Language Models (LLMs)** to enhance knowledge-based querying.
- Developed **AI automation solutions** for real-world business use cases, improving operational efficiency.
- Integrated **LangChain** for modular and scalable LLM workflows.
- Applied **LiteLLM** to standardize multi-provider LLM endpoint formatting and enforce clean coding practices.
- Utilized **AWS EC2** for scalable model hosting and deployment in cloud environments.

CTI Research & Development

Dec 2024 - Present

- Web Development: Designed and optimized APU's official Administration web app using Angular, TypeScript, JavaScript, HTML/CSS.

Technical Assistant

November 2023 - Dec 2024

- Fine-tuning and optimizing hardware components to meet performance requirements, ensuring seamless system functionality, efficiency, and reliability through precise configuration and troubleshooting

AWARDS

KitaHack Google Developer Group on Campus Hackathon

Apr 2025

- **Qualified as Top Ten** as a leader of iPocket with a team of three in developing an AI-based Expense Mobile Application.

Joget NextGenHack Hackathon

Nov 2024

- **Won first place** with a team of four in developing an AI-based Financial App that enhances companies in managing the data related to Finances using Joget App.

DevMatch Hackathon

Aug 2024

- **Won first place** with a team of four in developing an AI-based Voting System.

PROJECTS

RAG Chatbot

June 2025 - June 2025

- Built and deployed Retrieval-Augmented Generation (RAG) pipelines for Large Language Models (LLMs) to enhance knowledge-based querying.
- Developed AI automation solutions for real-world business use cases, improving operational efficiency.
- Integrated LangChain for modular and scalable LLM workflows.

- Applied LiteLLM to standardize multi-provider LLM endpoint formatting and enforce clean coding practices.
- Utilized AWS EC2 for scalable model hosting and deployment in cloud environments.

Expense App (Mobile Application)

Jan 2025 - April 2025

- Developing an AI-powered expense tracking app using Flutter, Firebase, and API for OCR-based receipt scanning. Integrated an AI Agent for voice recognition, allowing users to log expenses through voice commands, enabling hands-free and automated expense entry. Also, ChatBot for suggestions and quick summary..

SKILLS

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- **Language:** English, Malay, Indonesian
 - **Programming Language:** Python, PyTorch, MySQL, Java, C#