

LUU CHI KIEN

AI ENGINEERING

MAIN OBJECTIVE

My goal is to research and build robust AI models that adapt to individual student needs, streamline grading workflows, and power interactive learning platforms. I love leveraging NLP and LLM technologies to bridge the gap between pedagogy and modern technology.

ACHIEVEMENT

- Awarded **50%** Scholarship for the entire course at FPT University

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<https://github.com/luwukien>



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ACADEMIC BACKGROUND

FPT University of Hanoi

2024 - Present

Junior student of Software Engineering

Sep, 2024 - Mar, 2028 (Expected)

- Leading and working on a lot of projects in 2 years, with skills such as presentation, requirements analysis, designs database, reporting.

GPA: 3.0/4.0

PROJECT

Jun 2026 - Jul 2026

Cellphones RAG Chatbot

- Technologies: Python, ChromaDB, SentenceTransformers (vietnamese-sbert), PhoRanker (Cross-Encoder), BM25, Playwright, Groq (Llama 3.3), Underthesea.
- Developed an end-to-end RAG (Retrieval-Augmented Generation) backend pipeline to support automated Q&A, integrating Playwright to scrape store data from CellphoneS and utilizing dynamic context injection for advanced text preprocessing.
- Implemented a Hybrid Search engine (Vector + BM25) fused via Reciprocal Rank Fusion (RRF) and optimized semantic relevance using PhoRanker for cross-encoder reranking.
- Achieved exceptional retrieval performance on a Golden Dataset, reaching a Hit Rate@3 of **94.44%**, MRR@3 of **0.7222**, and NDCG@3 of **0.9088**.

GitHub: <https://github.com/luwukien/chat-bot-rag-cellphoneS>

Sep 2025 - Oct 2025

Face Recognition Gym - Check-in system

- Technologies used: Python, OpenCV, Face Recognition (dlib), Pandas, Pillow, Multithreading, ImageHash.
- Built an end-to-end face recognition pipeline to automate the gym check-in process, mapping recognized embeddings with member profiles from Excel/CSV databases.
- Developed a data quality guardrail by filtering out blurred faces using Laplacian variance and ensuring strictly single-face data collection.
- Optimized live camera streaming using Multithreading in OpenCV, significantly reducing latency and preventing UI freezing during face detection.

GitHub link: <https://github.com/luwukien/face-recognition-gym>

EXTRACURRICULAR ACTIVITIES

2025 - Present

Japanese Software Club

- Core Member & Event Coordinator
- Supported and coordinated with the collaborator (CTV) team to track task progress, resolve operational issues, and ensure smooth day-to-day club activities.
- Joined the Organizing Committee for CodeFest 2025 (a major tech event in Northern Vietnam), taking care of technical setups, operational workflows, and participant support.
- Acted as a bridge between core technical teams and external collaborators to keep event milestones on track.

SKILLS

- Programming Languages: Python, Java
- AI/ML Frameworks & Libraries: PyTorch, Transformers, NumPy, Pandas
- Databases & Tools: SQL Server, Vector Databases (ChromaDB/FAISS), Git/GitHub
- Core Expertise: Retrieval-Augmented Generation (RAG)
- Web Technologies: HTML/CSS
- IDEs: Visual Studio Code, IntelliJ
- Languages: English (IELTS 4.5 (Targeting 7.0))
- Soft Skills: Communication, Teamwork, Critical Thinking, Collaboration