Chu Huy Quang

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Education

University of Engineering and Technology (UET) - VNU, BS in Computer Science   Sept 2022 – May 2026
- **GPA:** 3.9/4.0 (a link to somewhere)
- UET Code Camp 2024: Consolation Prize
- IELTS 7.5 (Expired on Oct 2023)

Experience

Research Assistant, Data Science and Knowledge Technology Laboratory – UET   Dec 2023 – Oct 2024
- Applying NLP techniques, contrastive learning to improve information retrieval performance in the legal domain.
- LLM-based solutions for semantic search and legal text ranking, ensuring high relevance and accuracy.

Research Assistant, Intelligent Software Engineering Laboratory – UET   Oct 2024 – Now
- Synthetic data generation project, focusing on using LLM to create data with low cost and high privacy.

AI Engineer Intern, RikkeiAI – Rikkeisoft   Feb 2025 – Jun 2025
- OCR project using CRNN, focusing on extracting and recognizing text from images with high accuracy.
- Company chatbot project for customer, using LLM and Model Context Protocol.

DS/AI Talent, Viettel Digital Talent – Viettel Group   Apr 2025 – July 2025
- RAG system to provide text answer with image, video for intuition for Vietnamese domain specialized data.

Publications

XOSA-NOWJ@ALQAC 2024: Efficient Legal Information Processing with the Combination of Semantic–based Model and LLMs   2024

Nguyen Hai-Long, Nguyen Duc-Minh, Nguyen Quang-Anh, **Chu Huy-Quang**, Nguyen Huu-Dung, Nguyen Khanh-Huyen, Pham Cong-Minh, Vuong Thi-Hai-Yen, Nguyen Ha-Thanh

16th IEEE International Conference on Knowledge and Systems Engineering (KSE 2024)

Projects

RAGChatApp   RAGChatApp
- Designed the backend with FastAPI and PostgreSQL, integrating LangChain and Qdrant for document retrieval and storage. Integrated Cohere for language model responses.
- Tools Used: Python, Qdrant, Langchain, PostgreSQL, ReactJS

LegalRetrieval   ALQAC2024
- Legal case retrieval system, focusing on implementing a contrastive model (ColBERT) and lexical search (BM25) for efficient document retrieval.
- Tools Used: Pytorch, Huggingface, ElasticSearch

VDT-UniversalRAG   VDT-UniversalRAG
- RAG system to provide text answer with image, video for intuition for Vietnamese domain specialized data.
- Tools Used: Qdrant, Modal, LanGraph, Huggingface, sentence-transformer, Open-AI

Technologies

Languages: Python, C++, Java, JavaScript

Technologies: Git/Github, AWS, Docker, Pytorch, Tensorflow, Langchain, LangGraph, MCP.