Ho Quoc Tuan

AI Engineer Intern

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About me

A Mathematics and Computer Science student with a strong interest in Artificial Intelligence and data-driven technologies. I am eager to apply analytical thinking and problem-solving skills to develop intelligent systems and contribute to meaningful AI-driven innovations.

Education

University of Science - VNUHCM   *Oct 2021 – Nov 2025*

BS in Mathematics and Computer Science

○ GPA: 3.67/4.0

○ **Coursework:** Machine Learning, Deep Learning, Data Mining, Database Management Systems, Python for Data Science, Statistics, Data Visualization

Experience

STEAM Teaching Collaborator   *Ho Chi Minh City*

Teky Holdings   *2023 – 2025*

○ Designed and delivered project-based workshops in programming, robotics, and creative technology for students aged 6–15.

○ Developed educational materials integrating coding and computational thinking to enhance engagement and understanding.

○ Mentored students in coding challenges and innovation contests, strengthening problem-solving and teamwork skills.

Awards

Panasonic, Scholarship Asia Program for Undergraduate Students   *2024 – 2025*

○ Awarded for academic excellence and potential for future impact. ↗

Lawrence S. Ting Scholarship   *2023 – 2025*

○ Recognized for excellence in academics and community contributions.

Outstanding Student Award – University of Science   *2023 – 2024*

○ Honored for academic excellence and leadership within the university community.

Dong Hanh Scholarship for Academics and Social Impact   *2022 – 2024*

○ Awarded for strong academic performance and positive social impact.

Projects

Chatbot with Job Listings from LinkedIn (MNT Team – University Project) ↗   *Feb 2025 – Mar 2025*

○ Developed a Retrieval-Augmented Generation (RAG) system that uses LinkedIn job listings to recommend relevant opportunities based on user prompts.

○ Scraped and processed job data using Selenium and BeautifulSoup, then stored it in vector databases (FAISS, Chroma) for similarity search.

○ Integrated AI models via LangChain, LangGraph, and Hugging Face to enhance response accuracy and job relevance.

○ Built an interactive Streamlit interface with backend services hosted on AWS and Aiven MySQL for seamless

user experience.
- ○ **Tools Used:** Streamlit, MongoDB, AWS, MySQL (Aiven), LangChain, LangGraph, FAISS, Chroma, Hugging Face, Selenium, BeautifulSoup.

[Chat Document Analyzer ↗](#) *Apr 2025 – May 2025*

- ○ Built a Retrieval-Augmented Generation (RAG) chatbot that enables users to upload documents and interact with their content through contextual Q&A.
- ○ Implemented backend using LangChain, and FAISS for semantic search and document retrieval.
- ○ Utilized Groq LLaMA as the core LLM and Hugging Face InstructorEmbeddings for text vectorization.
- ○ Developed an interactive interface with Streamlit and managed local data storage via FAISS vector store and on-disk session management.
- ○ **Tools Used:** Streamlit, LangChain, LangGraph, FAISS, Hugging Face, Groq LLaMA 3.1-8B-Instant.

Technical Skills

- ○ **Languages:** Vietnamese (Native), English (Conversational)
- ○ **Programming Languages:** Python, R, SQL, Bash
- ○ **Machine Learning & Deep Learning:** Scikit-learn, PyTorch
- ○ **Big Data & Data Engineering** : Apache Spark, Kafka
- ○ **Data Management & Storage:** PostgreSQL, MySQL, MongoDB, AWS S3
- ○ **Cloud Technologies:** AWS, Google Cloud
- ○ **Data Analytics & Visualization:** Pandas, NumPy, Power BI