LÊ NGUYỄN HOÀN HUY

AI Engineer Intern / Fresher

ABOUT

Computer Science graduate with hands-on experience in building AI-powered applications, focusing on NLP, chatbot systems, and applied machine learning. Experienced in developing backend services for AI features, integrating LLM-based APIs, and designing multi-turn conversational flows. Interested in AI engineering roles where AI models are transformed into practical, real-world products.

CAREER OBJECTIVE

Seeking an AI Engineer Intern or Junior AI Engineer position where I can apply my knowledge of machine learning, NLP, and LLM-based systems to build practical AI solutions. I aim to grow through hands-on projects, mentorship, and real-world system development while contributing to AI-driven products with measurable impact.

PERSONAL INFORMATION

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Github: https://github.com/HhuyH

Location: Ho Chi Minh City, Vietnam

EDUCATION

Van Hien University

2021 - 2025

Bachelor of Software Engineering – Major in Computer Science

GPA: 3.39 / 4.00

PROJECT

Project HealthCare – Chatbot — AI Developer

Duration: May 19, 2025 – August 20, 2025

Description:

An intelligent healthcare chatbot that analyzes users' initial symptoms to suggest whether they should visit a doctor. The system also supports appointment booking, health consultation, product recommendations, and natural language data queries.

Additionally, I designed multi-turn dialogue flow with context tracking, similar to NPC-style conversation logic used in game bots.

Key Features:

- **Symptom analysis:** Asks follow-up questions and provides basic health advice.
- **Health consultation:** Suggests improvement methods based on user conditions.
- **Appointment booking:** Creates and confirms medical appointments through chat.
- **Product recommendation:** Suggests suitable health products and devices; generates reports for doctors.
- **Admin tasks:** Supports natural language queries on data such as products and orders.

Technologies: Python, FastAPI, GPT API, MySQL, Redis.
Project Link: HealthCare_Chatbot

SKILLS

Programming Languages:
• Python, C++, SQL

Frameworks & Technologies:

• FastAPI, PyTorch, TensorFlow, Pandas, NumPy, Redis, OpenCV, Selenium, Firebase

AI / Machine Learning:

• Machine Learning, Deep Learning, NLP

• Conversational AI and multi-turn dialogue systems

• Data preprocessing, model training & evaluation

• Experience integrating LLM-based APIs (OpenAI GPT API)

• Familiar with basic Retrieval-Augmented Generation (RAG) pipelines and LLM workflow orchestration

Database:

• MySQL, SQL Server, Database Design (ERD, DFD, Use Case).

Tools & Platforms:

• GitHub, Jupyter Notebook, Google Colab, SQL Server Management Studio, Android Studio, VS Code

Languages & Certificates:

• TOEIC 745 (Reading & Listening)

Project LLM-based Knowledge Assistant — Personal Project

Description:

- Built a prototype Retrieval-Augmented Generation (RAG) system to answer domain-specific questions from custom documents.
- Implemented document chunking, embeddings, vector search, and LLM response generation.
- Explored LangChain to orchestrate retrieval and prompt pipelines.

Technologies: Python, LangChain, OpenAI API

Project Link: LLM based Knowledge Assistant

Project Alphabet – Sign Language Detection — *Personal Project*

Description:

A system that recognizes American Sign Language (ASL) hand gestures (33 signs) using a Convolutional Neural Network (CNN) to support communication for the hearing-impaired community. Implemented real-time inference pipeline for continuous input streams.

Implementation Process:

- Migrated from Random Forest to CNN to improve performance.
- Processed image data: removed backgrounds, cropped hand regions, applied data augmentation (rotation, flipping, background replacement).
- Trained CNN model using TensorFlow/Keras, achieving ~94.6% accuracy across 33 gesture classes.
- Configured a real-time demo with webcam integration (via Jupyter Notebook).

Technologies: Python, TensorFlow/Keras, OpenCV, Jupyter Notebook

Key Result: Achieved approximately **94.62% accuracy** across 33 ASL signs.

Future Vision:

- Extend the system to recognize continuous sign language sequences and improve real-time usability.

Project Link: AlphaBet Sign Language Detection