



LƯU TRỌNG DŨNG

AI Engineer Intern

Contact

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GitHub

github.com/trongdung143

Education

Ho Chi Minh City University of Technology and Education (HCMUTE)

- Major: Information Technology
- GPA: 3.19/4.00

Skills

- **Languages:** Python, C++, C#.
- **Frameworks and Libraries:** PyTorch, Scikit-learn, OpenCV, Torch, TensorFlow, LangChain.
- **Databases:** MySQL, PostgreSQL (Supabase).
- **Tools:** Git, Docker.
- **Soft Skills:** Communication, Problem-Solving, Presentation, Teamwork, Self-Study, English.
- **Certificate:** Scrum Certificate

CAREER OBJECTIVE

As a fourth year Software Technology student, I aspire to become an AI Engineer specializing in Natural Language Processing (NLP) and Computer Vision. I am seeking an internship opportunity to apply my skills in Python programming, machine learning, and deep learning to real world projects, while further enhancing my research and teamwork abilities, with the long term goal of building a successful career in Artificial Intelligence.

PROJECTS

Learning with AI Platform (Team Project – 5 members)

1/2025-5/2025

Role: AI Developer (Responsible for AI Integration)

Frameworks: LangChain, Together API, FastAPI, TensorFlow, Sentence Transformers, FAISS.

- Built a semantic search system with Sentence Transformers + FAISS for fast and accurate PDF retrieval (RAG).
- Developed an AI backend using FastAPI, connecting PDF/text knowledge sources to personalize the learning experience.
- Generated lecture content from PDFs via an LLM, applied user-selected emotional tone, and delivered it through a 3D presenter; enabled grounded Q&A on the same materials.
- Collaborated with the team to integrate AI into the web application, ensuring seamless functionality and an interactive learning experience.

Repository: github.com/trongdung143/langchain

Extract information from CV using NER (1 member)

8/2025-9/2025

Role: Sole Developer

Frameworks: Spacy, Pytorch, HuggingFace, FastAPI.

- Build NER model using Spacy to extract information (Name, Email) from CV PDF.
- Design the entire pipeline: PDF → TXT → labeling → training → deploy API using FastAPI.

Repository: github.com/trongdung143/NER_model

Multi-Agent Conversational AI System (1 member)

4/2025-Present

Role: Sole Developer

Frameworks: LangChain, LangGraph, Together API, Gemini API, Google API, FastAPI, TensorFlow, Sentence Transformers, FAISS, MCP (Tools).

- Designed a multi-agent architecture (Assigner, Supervisor, Analyst, Calculator, Writer, RAG ...), where each agent operates as an independent model with its own toolset.
- Orchestrated with LangGraph, integrated LangChain + MCP Tools (Gmail, Drive, file ops...).
- Designed long-term memory with Supabase/PostgreSQL for multi-session context.
- Infrastructure: FastAPI (API/streaming) + Together/Gemini API (LLM).

Repository:

- **Main:** github.com/trongdung143/chatbot (Multi-agent conversational AI system).
- **Supporting:**
 1. github.com/trongdung143/NER_model (Developed custom NER model for CV information extraction and integrated into agents).