

Ha Trong Nguyen

AI Engineer

📞 (+84) 338-996-391 📍 Ho Chi Minh City, Vietnam ✉️ hatrongnguyen.work@gmail.com
🌐 htrnguyen 🌐 htrnguyen 🌐 htrnguyen.github.io

Summary

AI Engineer based in Ho Chi Minh City, Vietnam, with a strong focus on Large Language Models (LLMs) and Computer Vision. Passionate about architecting intelligent systems that seamlessly integrate visual perception and language understanding to deliver impactful, real-world solutions.

Research Interests: Large Language Models, Computer Vision, and Applied AI.

Education

Ton Duc Thang University

Bachelor of Computer Science - GPA: 8.3/10

2022 - 2026

Ho Chi Minh City, Vietnam

Experience

ANZ Team

AI Engineer

2026 - Present

Remote

- Developing **NovaLearn Research**, an AI-driven educational platform utilizing **FastAPI**, **PostgreSQL**, and **Milvus** vector database.
- Prototyping RAG pipelines and context-aware chatbots by orchestrating multiple LLMs via **LangChain** and **LangGraph**.

AI Laboratory — Ton Duc Thang University

AI Laboratory Member

2025 - 2026

Ho Chi Minh City, Vietnam

- Explored hybrid optimization techniques and large language models (LLMs) for solving the Job Shop Scheduling Problem (JSSP) using OR-Tools.
- Conducted literature reviews and implemented experimental pipelines for problem analysis, improving scheduling efficiency.

Projects

Product Information & Expiration Date Recognition | *YOLOv11, OCR*

2024 - 2025

- Led a 3-member team on OCR-based product information extraction, contributing to real-world expiration date detection systems.
- Achieved First Prize in university research competition and published findings globally in SOICT 2025 (Springer CCIS).

Vietnamese OCR from Images 📄 | *PyTorch, ResNet, Transformers*

2024 - 2025

- Built a ResNet-Transformer architecture from scratch for robust Vietnamese OCR.
- Trained and evaluated models on VinAI's dict-guided dataset for document text recognition.

Publications

- Le-Thanh Tien, Luu-Huu Tri, **Ha-Trong Nguyen**, Nguyen-Huu An, & Dung-Cam Quang. (2025). *VNProductKIE: A Dataset and Three-Stage Pipeline for Key Product Information Recognition on Vietnamese Packaging Labels*. Presented at SOICT 2025. Proceedings to appear in Springer CCIS.

Awards

- First Prize**, Student Research Competition - Ton Duc Thang University (2025)

Skills

- Languages:** Python, Java, C
- Frameworks & Libraries:** PyTorch, FastAPI, Transformers, OpenCV, LangChain
- Tools & Platforms:** Docker, Git, Google Colab, Kaggle, Hugging Face, Linux

Certifications

- **Deep Learning**
- **Prompt Engineering**
- *More...*

Languages

- **Vietnamese** (Native)
- **English** (Intermediate - Reading & Writing)