

HA TRONG NGUYEN

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SUMMARY

Final-year Computer Science student at Ton Duc Thang University (GPA: 8.33/10), passionate about Artificial Intelligence and Computer Vision. Hands-on experience in building OCR systems, image classification models, and data labeling workflows. Seeking an internship or entry-level position as a Machine Learning Engineer to apply research and development skills to practical problems.

Research interests: Deep Learning, Computer Vision, OCR, Image Processing

EDUCATION

Ton Duc Thang University

Bachelor of Computer Science – GPA: 8.33/10

Sept 2022 – Expected 2026

Ho Chi Minh City, Vietnam

EXPERIENCE & PROJECTS

First Prize – Student Research Competition

2024 – 2025

Ton Duc Thang University

Ho Chi Minh City, Vietnam

- Led model development in a 3-member project: "Application for Product Details Recognition and Expiration Date Management".
- Implemented product label detection using YOLOv11; fine-tuned multiple OCR models for text recognition (VietOCR, TrOCR, PaddleOCR, Vintern-1B-v3.5) on an expanded VNProductKIE dataset.
- Awarded **First Prize**; research paper currently under review at **MIWAI 2025**.

Course Project – Vietnamese OCR from Images 📄

Semester 2, 2024–2025

Deep Learning Course

Ho Chi Minh City, Vietnam

- Developed a Vietnamese OCR system using a ResNet–Transformer encoder–decoder architecture.
- Trained and evaluated the model on VinAI's dict-guided dataset 📄.
- Deployed and executed the model via command line and Jupyter notebooks for experimentation and demonstration.

Capstone Project – Dental Clinic Management System 📄

Semester 1, 2024–2025

Software Engineering Course

Ho Chi Minh City, Vietnam

- Collaborated in an Agile team to develop a C# desktop application for dental clinics, with modules for patient records, appointment scheduling, and reporting.
- Designed UX/UI and implemented core features; recognized as an **Outstanding group** for delivering ahead of schedule.
- Built the system to streamline clinic operations and improve the reliability of patient record management.

Course Project – Attendance System 📄

Semester 1, 2024–2025

Software Engineering Course

Ho Chi Minh City, Vietnam

- Engineered a complete attendance management system from scratch in C#, integrating Google Sheets as a cloud-based database.
- Implemented data management functions, user-friendly interface, and reporting features in a single application.
- Automated the attendance process, reducing manual effort and ensuring consistent record-keeping.

TECHNICAL SKILLS

Programming: Python, C#, Java, C

Frameworks: PyTorch, Scikit-learn, Ultralytics, FastAPI

Tools: Git, VS Code, Docker, Google Colab, Kaggle, Linux

Topics: Deep Learning, Computer Vision, Data Analysis, Agile/Scrum

CERTIFICATIONS

- DeepLearning.AI
- Prompt Engineering
- **More** 📄

LANGUAGES

- Vietnamese (Native)
- English – Intermediate (Reading/Writing technical docs)