



HUYNH VIET TIEN

(+84) 335 903 327

15/05/2004

[linkedin.com/in/tienhuynh1552/](https://www.linkedin.com/in/tienhuynh1552/)

huynhtien.150686@gmail.com

Thu Duc, Ho Chi Minh City

[Portfolio link](#)

GOALS

Short-term goals: Develop expertise in transformer architecture implementation, MLOps, and end-to-end AI system design while building a portfolio of production-ready applications that demonstrate both technical depth and practical deployment skills.

Long-term goals: Advance from AI Engineer to AI Architect by mastering system design, leading ML teams, and driving enterprise AI strategy.

SKILLS & CERTIFICATE

- **IELTS:** 6.5
- **Expertise:** Machine Learning | Computer Vision | NLP | RAG
- **Programming Languages:** Python | C++ | PHP | R
- **Web Development:** HTML | CSS | Javascript | React
- **Framework:** FastAPI | Scikit-Learn
- **Tools:** Docker | Git | Github | Kaggle
- **Database:** SQL

EDUCATION

VNUHCM – University of Information Technology

Sep 2023 – May 2027 (expected)

- Major: Artificial Intelligence
- Academic performance: good (GPA: 8.1/10)

Achievements:

- First-year excellence scholarship 2024

EXPERIENCE

Freelancer Web Development – TGN DIGITAL

July 2024 - Present

Project: [ttcenter](#) | [leximco](#) | [navisdanang](#) | [utopia](#) | [baboohouse](#)

- Updating MySQL database to implement new functionalities
- Identifying and modifying source code files to add new features or adjust system behavior as required
- Customizing and editing user interfaces for enhanced usability and appearance
- Worked with various platforms including custom PHP, WordPress, and Wix to meet diverse client needs

International Relations & Matching Member – AIESEC

March 2024 – January 2025

in Vietnam (Ho Chi Minh East branch)

- Enhanced soft skills and foreign language proficiency through international engagement.
- Proficiently used organizational and drafting tools for time management and scheduling.
- Utilized design software for printing and promotional materials.
- Led and coordinated meetings with international partners to present products and negotiate contracts.
- Organized major events focused on environmental awareness and career orientation.

PROJECTS

Team – Multimodal Video Retrieval Engine with Vision and Text

June 2024 – October 2024

Role: *Leader*; Member: 4

- **Developed a multimodal video search system** to retrieve relevant frames using diverse inputs, including text, speech, and images. **Integrated various techniques** for text recognition, speech-to-text conversion, image-text understanding, object detection, and audio analysis.
- Technology: Python, HTML, CSS, JavaScript, VGG, YOLOv8, Whisper, Faiss, VLM, FastAPI, ElasticSearch.

Team – Retrieval of Optimal Objects for Multi-modal Enhanced Language and Spatial Assistance

April 2025

Role: *Executive*; Member: 5

- Developed a ground truth generation system for text-to-image retrieval evaluation.
- Engineered image-text retrieval system combining CLIP and InternVL models for context-aware object matching.
- Implemented advanced NLP pipeline for semantic phrase extraction to enhance query understanding.
- Created dynamic image patching technique for optimized multi-scale feature extraction.
- Developed automated evaluation and reporting system for retrieval performance analysis.
- Technology: Python, Faiss, VLLM: InternVL, CLIP, PyTorch.

Team – Signboard detection using

November 2024

Role: *Leader*; Member: 3

- Developed a YOLO-based object detection system for signboard identification, optimizing accuracy through data analysis, augmentation, and hyperparameter tuning.
- Conducted model training and inference on Kaggle and private datasets, evaluating performance using MAP to ensure robustness in real-world applications.
- Technology: Python, YOLO, Albumentation, Augmentation, Kaggle.

RESEARCH & AWARDS

Top 4 in ROOMELSA – Retrieval of Optimal Objects for Multi-modal Enhanced Language and Spatial Assistance

April 2025

Top 2 in TEMPO RUN – Signboard detection challenge

November 2024