Le Thi Thanh Tam

Ho Chi Minh, Viet Nam
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Education

University of Information Technology - VNUHCM **September 2023 – November 2026**
Bachelor of Science in Computer Science *Ho Chi Minh, Viet Nam*

Quoc Hoc – Hue High School for the Gifted **September 2020 – May 2023**
Mathematics Gifted Program *Hue, Viet Nam*

Honors and Awards

- **First Prize** Science and Technology Award for University Students (National) August 2025
- **Top 5** Challenge Track 4 in AI City Challenge, NVIDIA, ICCV (International) July 2025
- Achieved Encouragement Scholarships (University) June 2025
- **First Prize** in Video Browser Showdown (International) January 2025
- **Winner** in Ho Chi Minh AI Challenge (National) December 2024
- **Winner** in AI TempoRun (University) December 2024
- **Honored** Five-Good Student (University) November 2024

Publications

When Helpful Text Hurts: Option-Redirecting Bias in Vision–Language Models
in ACM International Conference on Multimedia, ACMMM 2026
- Investigated decision-level bias from unreliable auxiliary text in tri-modal VQA; introduced the Textual Reliability Ladder and a training-free two-stage inference-time intervention using latent-space steering and dynamic grounding, achieving up to 6.99 percentage-point accuracy improvement under option-redirecting text.

Efficient and Distortion-Aware Fisheye Object Detection for Edge Devices
in International Conference on Computer Vision Workshop, ICCVW 2025
- Presented an efficient fisheye object detection system with distortion- and radial-aware learning, achieving real-time performance and competitive results in AI City Challenge 2025.

Context-Aware Question Answering for Vietnamese University Admissions via Multi-LLM Architecture
in International Conference on Multimedia Analysis and Pattern Recognition, MAPR 2025
- Built a RAG-based admissions chatbot integrating LLM agents with memory and tools, enabling efficient retrieval and user-friendly interaction.

NII-UIT at VBS2025: Multimodal Video Retrieval with LLM Integration and Dynamic Temporal Search
in International Conference on Multimedia Modeling, MMM 2025
- An LLM-enhanced multimodal video retrieval system, enabling advanced query expansion and flexible text–visual search. A dynamic temporal strategy further boosts retrieval accuracy and user experience.

Addressing Ambiguous Queries in Video Retrieval with Advanced Temporal Search
in International Symposium on Information and Communication Technology, SOICT 2024
- A multimodal video retrieval system with advanced temporal search to better handle ambiguous queries, achieving strong results in Ho Chi Minh AI Challenge 2024.

Experience

GOFA **May 2026 – July 2026**
AI Product Builder *Ha Noi, Viet Nam*
- Owned the development of a modular multi-agent platform supporting agent orchestration, memory management, tool-calling, and workflow execution.
- Built AI-powered applications leveraging LLMs, RAG pipelines, knowledge bases, and workflow automation to solve enterprise use cases.
- Implemented scalable backend services for agent communication, retrieval, evaluation, and real-time interactions.
- Rapidly prototyped and validated AI product ideas through MVP development, experimentation, and user feedback loops.

AI Club - UIT **January 2024 - June 2026**

Research Assistant *Ho Chi Minh, Viet Nam*

- Participated in cutting-edge *Computer Vision (CV)* research projects, focusing on Optical Character Recognition (OCR), Event Video Retrieval, etc.
- Additionally, contributed to advanced *Natural Language Processing (NLP)* research projects, including Traffic Safety Description and Analysis, Admission Chatbot Systems for UIT, etc.
- Collaborated closely with AIClub's advisory board, comprising esteemed faculty members and researchers, to drive innovation and deliver impactful solutions.

Payoo **May 2025 – August 2025**

AI Engineer (GenAI / Agentic Systems) *Ho Chi Minh, Viet Nam*

- Built and developed an AI-powered chatbot to provide 24/7 responses to customer inquiries.
- Built automated workflows to collect customer complaints and detect missed emails or messages from different channels. Implemented a monitoring and notification system to generate statistics and remind the support team to follow up on unresolved issues.

Projects

Distortion-Aware Fisheye Object Detection System

- Designed an efficient fisheye object detection system tailored for **real-time** traffic surveillance and edge deployment.
- Developed a *distortion-aware learning module* to dynamically prioritize highly distorted regions, boosting peripheral detection accuracy and accelerating convergence by *1.5×*.
- Implemented *radial-aware data augmentation* to enhance model robustness by synthesizing fisheye-consistent samples in distortion-heavy regions.
- Achieved **Top 5** Challenge Track 4 - Road Object Detection in Fish-Eye Cameras in AI City Challenge, NVIDIA 2025.

Traffic Safety Description and Analysis

- Designed a unified multi-view traffic-scene understanding framework tailored for **fine-grained** pedestrian–vehicle interaction analysis, combining semantically grounded captioning and caption-guided VQA.
- Developed a *spatially-grounded decompose–recompose captioning module* that injects pedestrian/vehicle bounding boxes and hierarchically synthesizes scene semantics.
- Achieved **Top 9** Challenge Track 2 - Traffic Safety Description and Analysis in AI City Challenge, NVIDIA 2025.

Event Video Retrieval

- Researched solutions for *Visual Question Answering*, utilizing models to generate answers from **9TB of video data**.
- Designed and implemented modules including *OCR*, *ASR*, and *multi-modal embeddings for text and images*.
- Evaluated and compared SOTA video retrieval models and optimized fusion weights, ensuring high system performance and reliability.
- Achieved **Winner** in Ho Chi Minh AI Challenge 2024, **Best Overall, Best Expert** in Video Browser Showdown 2025.

Technical Skills

Languages: Python, Rust, Java, C, C++, HTML/CSS, JavaScript, SQL.
Developer Tools: VS Code, Antigravity, Cursor, Google Cloud Platform.
Technologies/Frameworks: Docker, Linux, GitHub, PyTorch / TensorFlow, Hugging Face Transformers, LangChain / LlamaIndex, OpenAI API, FastAPI / Flask, ReactJS.
Soft Skills: Problem Solving, Critical & Analytical Thinking, Self-learning, Research & Exploration, Team Collaboration, Technical Communication.