



NGUYEN VU KHAI TAM

AI Engineer Intern

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• GitHub: <https://github.com/NgVuxKhaiTam>

SUMMARY

AI student at UIT with a strong foundation in AI/ML and a proven track record of applying theory in high-stakes projects and competitions. Passionate about solving real-world problems, I am a quick learner with a strong sense of responsibility, eager to contribute technical skills to an impactful AI engineering role.

EDUCATION

University of Information Technology, VNU-HCM (UIT)
Bachelor of Science in Artificial Intelligence, Faculty of Computer Science

Ho Chi Minh City, Vietnam
2022 – Present

- GPA: 8.81 / 10.0

FPT High School
High School Diploma

Can Tho, Vietnam
2020 – 2023

EXPERIENCE

Research Intern
Ho Chi Minh City, Vietnam

UIT InSecLab (Information Security Lab), UIT
Jan 2025 – May 2025 (Expected)

- Researching and applying Large Language Models (LLMs) for Automating Penetration Testing.

Research Assistant
Ho Chi Minh City, Vietnam

University of Information Technology (UIT)
Aug 2024 – Present

- Conducting research on Selective Inference under the supervision of Dr. Vo Nguyen Le Duy.

Member
Ho Chi Minh City, Vietnam

TeamQ - Wanna.Win Inseclab
Jan 2024 – Jul 2024

- Actively participated in the club's research activities and collaborative projects in the field of information security.

Executive Board Member
Can Tho, Vietnam

Techno Guild Club
2020 – 2022

- Responsible for providing technical guidance and mentorship to club members.

PROJECTS

Selective Inference for Transfer Learning
2025

Scientific Paper

- Co-authored a research paper currently under submission to the *Statistics and Computing* journal.

Image-based Event Retrieval System (MAVERICS)
2024

HCM AI Challenge

- Developed MAVERICS, a multi-modal system for event information retrieval from images/videos, advancing to the final round.
- Integrated BLIP2, YOLOWorldv2, PP-OCRv3, and WhisperX for efficient, CPU-only query processing.

- A scientific paper detailing the system was accepted and presented at the *International Conference on SOICT 2024*.

LLM 20 Questions
2024

Kaggle Competition

- Developed LLM-based agents combined with Retrieval-Augmented Generation (RAG) to effectively play the "20 Questions" game.

Motorbike Brand Classification
2024

University Project (CS114)

- Built a computer vision system to automatically classify motorbike brands by fine-tuning the DINOv2 model. ([GitHub Link](#))

Home Credit - Credit Risk Model Stability
2024

Kaggle Competition

- Developed a robust credit risk model focusing on accuracy and stability, using advanced feature engineering and an ensemble of LightGBM and CatBoost. ([GitHub Link](#))

Ad Banner Generation via Diffusion Model Fine-tuning
2023

ZaloAI Challenge

- Fine-tuned a Stable Diffusion model using the QLoRA method to generate advertising banners from text prompts.

Autonomous Vehicle for COVID-19 Quarantine Zones
2021

Vietnam STEAM Challenge (VSC)

- Utilized Raspberry Pi and CNNs for lane detection and navigation. The vehicle performed tasks like contactless delivery and area disinfection.

Facial Recognition-Based Attendance System
2021

City-level Science Tech Competition

- Developed a Flask web application using a custom CNN for real-time face detection and attendance tracking.

HONORS & AWARDS

- **Academic Encouragement Scholarship (Highest GPA)** | UIT, Semester 2, 2024
- **Silver Medal** | Home Credit - Credit Risk Model Stability Kaggle Competition, 2024
- **Bronze Medal** | LLM 20 Questions Kaggle Competition, 2024
- **Honorable Mention** | WANNA EVOLUTION Competition, 2024
- **Top Scorer in Mathematics** | FPT High School Graduation Exam, 2022
- **1st Prize (Technology Award) & 2nd Place Overall** | Vietnam STEAM Challenge, 2021
- **Best Communication Team & 3rd Place Overall** | Vietnam STEAM Challenge, 2020
- **1st Prize** | Hello World Python Competition (by PETRONAS University, Malaysia), 2020

SKILLS & COMPETENCIES

Languages:	Vietnamese (Native), English (Professional - DET: 105)
Programming:	Python, C++, JavaScript, SQL
AI/ML Frameworks:	PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, Hugging Face
Tools & DevOps:	Git, Docker, VS Code, PyCharm
Soft Skills:	Problem Solving, Teamwork, Communication, Critical Thinking