Minh-Khoi Pham
PhD Student - Senior Year

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EDUCATION

Dublin City University, Dublin, Ireland   Oct 2022—Oct 2026
Ph.D of Computer Application
- *Research Topic*: **Develop AI systems** for clinical risk prediction using **large foundation models** and finetune on health records.
- Publications: 2 **Q1** journal papers, 1 **A-ranked** conference paper

University of Science, VNU-HCM, Vietnam   2018—2022
Bachelor of Computer Science
- *GPA*: **4.0/4.0** | First Class Honor
- *Courses*: Algorithms/Data Structures, Object-Oriented Design, Database Design, Artificial Intelligence, Computer Systems

TECHNICAL PROJECTS

Smart Query Assistant with LLM 🎧 in   Sep 2023 - Oct 2023
A chatbot that translates user data queries into SQL commands, then performs execution and analyzes results.
- *My Role*: Designed the core workflow, ensured reproducibility, and hosted on the Huawei Cloud platform. Notably **enhanced by 2x the precision of Large Language Models** by finetuning LLM with PEFT (LoRA), to address hallucination.
- *Achievement*: Our five-member team achieved the **runner-up position at the Huawei Hackathon 2023** with this system.
- *Technical Skills*: SQLite, Large Language Models, LLM training, Prompt Engineering, Docker, Cloud Deployment

AI-Powered Meal Analysis from Food Photos 🎧   June 2021 - Sep 2021
AI Web application for precise ingredient and nutrition analysis from meal photos using advanced deep learning models
- *My Role*: Designed core workflow, including developing API server and application hosting on a remote server. Implemented and monitored the performance of YOLO model. Pushed models' **accuracies to $\geq$ 80% on large-scale real-world becnhmark**.
- *Achievement*: The open-sourced project gained significant recognition with over **300 stars on GitHub**.
- *Technical Skills*: Computer Vision, Object Detection, Web Application, Cloud Deployment

EXPERIENCE

AI Research Intern at Huawei Ireland Research Centre in   Feb 2024 - Feb 2025
Developed LLM-powered network configuration system to generate configuration suggestions for internal network engineers
- *Responsibilities*: Designed an agentic RAG pipeline for technical document understanding, enhanced performance with prompt engineering, prompt optimization, automated LLM evaluation process, achieving **accuracy $\geq$ 90% on company QA dataset**.
- *Achievement*: Was awarded **"Excellent Intern"**. Published a research paper at ECAI 2025 (**ranked A conference**).
- *Technical Skills*: Large Language Models, Prompt Engineering, Prompt Optimization, RAG, LLM Evaluation

Lab Assistant, Dublin City University   Sep 2023 - May 2024
Part-time lab tutor for two academic modules over the course of two semesters
- *Responsibilities*: Provided guidance and support to over 100 undergraduate students in two computer science modules: one focused on **C++ programming and the other on Django web application development**.
- *Key Skills*: Web Application, C++ Programming

Research Assistant at Software Engineer Laboratory (SELab), VNU-HCMUS   Oct 2020 - Oct 2022
Traffic signboard detection system for mobile mapping in panoramic street images using deep learning models
- *My Role*: Engineered the core classification and detection modules, achieving an impressive **F1 score of over 80%**. Actively participated in the iterative development process: encompassing data labeling, model training, reevaluation while maintaining bi-weekly reports with the stakeholders.
- *Achievement*: The system was built for a collaborative project between SELab and MapDAS secured a position among the **top 20 startup projects selected for funding** by VINIF.
- *Technical Skills*: Computer Vision, Web Application, Docker

AWARDS

- Awarded **second place at "Google AI Dublin Hackathon 2025"**, we built *an AI-powered web application designed to break reading barriers for dyslexic readers by transforming user photos into accessible, engaging storybooks.* 🎧 in
- Awarded *"Panasonic Special Scholarship Asia 2021"*, for **top 50 outstanding undergraduate students among 500 participants**.
- **Top 20 students among other universities** to receive certificate for *"Student with excellent achievement in study and research in Artificial Intelligence field 2021"* from HCMC Information and Communication Department, 2021

SKILLS

Tools and Languages	**Python** (Advanced), **Pytorch** (Proficient), **SQL** (Proficient), **Docker** (Proficient), **Git** (Proficient)
Area of Interests	Large Language Models, Generative AI, Foundation Models, Multimodal Machine Learning, Information Retrieval, Natural Language Processing, AIOps, MLOps, AI Engineering, Data Engineering, AI Researcher
Communication	English (fluent), Vietnamese (native speaker)