

Tạ Trung Tín

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About Me

As a final-year Computer Science student specializing in Artificial Intelligence, I am eager to apply my knowledge to AI research and applications. I have hands-on experience in machine learning and robotics, with strong programming skills in Python and C++. My passion lies in AI research, deep learning, and data science. I seek opportunities to innovate and contribute to real-world projects.

Education

Ho Chi Minh University of Technology - VNU-HCM Sep 2022 – June 2026
(expected)
BEng in Computer Science

- **GPA:** 3.9/4.0. **Program:** Honours Program.
- **Focus:** Artificial Intelligence, Machine Learning, Data Science.

Experience

IVS JSC HCMC, Vietnam
May 2024 - Sep 2025
Engineer Intern

- Programmed for autonomous robots using ROS2, Python, C++.
- Researched & Implemented Deep learning and Sampling-based path planning algorithm.

Research Projects

Leveraging Knowledge Graph and Graph-based Deep Learning Model for Recommendation Systems June 2025 - Now

- Focused on solving limitations of existing GNN-based models under sparse interactions.
- Applied Graph Neural Networks and Inductive Subgraph Reasoning to mitigate data sparsity and cold-start problem.

Projects

Hallucination Detection in Large Language Models [Github Link](#) 

- Fine-tuned PhoBERT, XLM-RoBERTa to classify LLM responses into three categories: no, intrinsic, and extrinsic hallucination.
- Achieved a Macro-F1 score of 0.77 on a Vietnamese text dataset.
- Tools: Hugging Face Transformers framework.

MiniTorch - Re-implementation of PyTorch [Github link](#) 

- Reimplemented core concepts of PyTorch, including core math operations, tensor class, and automatic differentiation system.
- Developed neural network modules, such as Linear, Conv1D, Conv2D, RNN, LSTM, GRU layers.
- Tools: Python, Numpy, Numba.

MiniGo Compiler [Github link](#) 

- Developed a compiler for MiniGo - a simplified Go-like language
- Including four stages: lexer & parser, abstract syntax tree generator, static checker, and Jasmin code generator.
- Tools: Python, Functional Programming.

Competitions

Biomedical Engineering Innovation Competition 2025 at IU, VNU-HCM (Finalist)

March 2025

- Developed an autonomous disinfection robot using UV-C light.
- Implemented real-time LiDAR-based mapping and navigation.
- Integrated Human Detection System using camera to ensure operational safety.
- Tools: Python, ROS2.

Certifications

ETS TOEIC 880

April 2023 - April 2025

Machine Learning Specialization

April 2024

DeepLearningAI, Stanford University (Coursera)

Credential ID:

- Covered supervised/unsupervised learning, reinforcement learning.
- Skills: Machine Learning, Python, TensorFlow, Scikit-learn

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Natural Language Processing Specialization

September 2025

DeepLearning.AI (Coursera)

Credential ID:

- Gained hands-on experience in solving problems like sentiment analysis, translation, and text summarization.
- Learned models such as logistic regression, naïve Bayes, HMMs, RNNs, LSTMs, GRUs, and Transformers.

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Scholarship and Awards

Academic Encouragement Scholarship at HCMUT - VNU-HCM

- Merit-based scholarship for academic excellence.
- Awarded for 6 consecutive semesters (2022–2025)