Nguyen Thai Tan

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Summary

I am an enthusiastic final-year undergraduate in Computer Science with expertise in artificial intelligence and machine learning. I am looking for a creative and challenging working environment where I can develop my skills and contribute meaningfully to innovative projects.

Education

Final-year Student at **Ho Chi Minh City University of Technology** (GPA: 3.7/4.0)		2021 - Present
Bachelor's Degree, Computer Science (Honors Program)		
Ben Tre High School for the Gifted, *High School Diploma, Mathematics* (GPA: 9.0/10)		2018 - 2021

Technical Skills

Python	for Machine Learning, Data Analytics, Game Programming
C#, C++, C	for Data Structure
HTML, CSS, JS, NodeJS, PHP, React	for Web Programming
MongoDB, MySQL, SQL Server, PostgreSQL	for Database

Work Experience

- **TMA Solutions - AI Engineer Intern**   July 2024 - Sep 2024
  - Fine-tuned YOLO for table detection in documents using Roboflow.
  - Proposed a Key-Value algorithm for information extraction from documents.
  - Utilized PostgreSQL and MinIO for data storage.
  - Collaborated within an Agile methodology for development and quality assurance.

Projects

- **CS Vietnamese LLM**   May 2025
  - Finetune model Llama-3.2-1B-Instruct-bnb-4bit to answer computer-science-related question using Low-Rank Adaptation.
  - Compare training configurations.

- **Weight Words using BERT**   March 2025
  - Construct English Economic Documents and Vietnamese Economic Documents datasets.
  - Utilize TF-IDF to fine-tuned BERT to weight words in a economic topic sentence.

- **EY Open Science AI and Data Challenge 2025**   March 2025
  - Use external datasets to understand the features.
  - Develop a machine learning model to predict heat island hotspots in an urban location.

- **Reinforcement Learning**   January 2025 - now
  - Use Q-learning, Deep Q-learning, Policy Gradients, Actor-Critic to solve CartPole Balancing, Frozen Lake, Tic tac toe.

- **Discrete Optimization** June - July 2024
  - Solve assignments of Knapsack, Graph Coloring, Traveling Salesman, Facility Location, Vehicle Routing, Set Cover using discrete optimization concepts and algorithms (constraint programming, local search, mixed-integer programming, etc).

- **Simple Visual Question Answering** May 2024
  - Utilize Deep Neural Networks and Convolutional Neural Networks (CNN) to provide answers for simple input questions about simple 64x64 images.

- **Solve Bloxorz with Artificial Intelligence** March 2023
  - Develop a solution for all 33 levels of the game Bloxorz using heuristic algorithms, including BFS, A*, and MCTS. Create a simulation using PyGame.

CERTIFICATION & HONORS & AWARDS

EY Open Science AI and Data Challenge	by EY	March 2025
Future VPBanker Scholarship	by VPBank	November 2024
Semi-Finalist Code Tour 2024	by VNG Corporation	June 2024
Ninety Eight Scholarship	by Ninety Eight	June 2024
Top 1 TOFAS Programming 2023 - Python Language	by TOFAS SPRIX	October 2023
Top 12 CSE Minathon 2023	by atWare VietNam	April 2023
Semi-Finalist Code Tour 2022	by VNG Corporation	December 2022
Top 10 Game UIT Hackathon 2022	by UIT	November 2022
IELTS Certificate 6.5	by IDP	April 2021

EXTRACURRICULAR ACTIVITIES

VPBank Recruitment Ambassador	2025
Leader of **HCMUT GameDev Club**	2023 - 2024
Runner of The UpRace 2021	2021