Tuan-Vo Lan

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EDUCATION

VNUHCM - University of Science — Viet Nam
Bachelor of Science in Computer Science: **GPA: None** — August 2024 – May 2028 (Expected)

AWARDS & ACHIEVEMENTS

Gold Medal Traditional 30/4 Olympiad in Informatics (top 10/200) — **2023**
- An annual competitive programming competition in the South and Central regions.

Gold Medal Informatics Olympiad in the Central - Central Highlands (top 7/200) — **2023**
- Prestigious yearly algorithmic contest for high school students in the region.

Code Tour Challenge Final Round by VNG (top 50/1200+) — **2024**
- Passed three elimination rounds and got top 50 at the Final round, awarded a VNG T-shirt.

IELTS 7.5 - CERF Level C1 — **2024**
- Advanced English language certification.

PROJECTS

Hand Tracking in Unity Using Mediapipe and OpenCV
- Developed a real-time hand-tracking system integrating Mediapipe, OpenCV, and Unity to achieve accurate hand movement representation in a 3D virtual environment.
- Enabled interaction with virtual objects (e.g., red cubes) using webcam-captured hand movements, demonstrating potential for gaming and simulation applications.

Crop Disease Detection at GDGoC Hackathon — **Ongoing**
- **Led a team of three to develop FarmBot**, a web-based crop disease detection system using MobileNetV3-Small and PaliGemma to assist small-scale farmers.
- Building a user-friendly Gradio interface for plant selection, image upload, and disease detection, with recommendations and weather data via Google Maps Geocoding API and OpenWeatherMap.

Third prize Final Round Olympic in AI HCMC 2025
- **Led a team of three building and utilizing advanced computer vision models**, including ResNet, EfficientNet, and ViT to classify mushrooms, achieving over 97% accuracy on the testing dataset.

AI Challenge by GDGoC HCMUS — **Ongoing**
- Applied UNet and Mask R-CNN models to perform image segmentation on rocks, achieving over 95% accuracy on the testing dataset.
- Developing a web-based app for users to upload images, segment rocks, and calculate their sizes using the model.

EXPERIENCE

Volunteer at Contest Team at VNOI — **August 2024**
VNOI is a national nonprofit organization promoting computer science education in Vietnam.
- Developed and proposed problems for high-quality contests such as the OI Contest and VNOI Regular Contest.
- Supervised the National Student Informatics Olympiad and the 2024 ICPC Asia Hanoi Regional, gaining event-management experience.

Member of AI & DS team at Google Developer Group on Campus — **November 2024**
A community of students passionate about technology, coding, and innovation using Google technologies.
- Collaborated with peers to develop AI/ML projects utilizing Google's tools and frameworks.

SKILLS & INTERESTS

Languages: C++, Python.

Libraries: Tensorflow, Pytorch, Pandas, Numpy,...

Tools: Manus, Cursor, VSCode, VS, Pycharm, Kaggle Notebook.

Interests & Hobbies: Human Development, Game Theory, Astronomy, Journalizing, Traveling,....