Tuan-Vo Lan

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EDUCATION

VNUHCM - University of Science   Ho Chi Minh, 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   **2023**
- An annual competitive programming competition in the South and Central regions (rank 10/160).

Gold Medal, Informatics Olympiad in the Central - Central Highlands   **2023**
- Prestigious yearly algorithmic contest for high school students in the region (rank 7/100+).

Top 50, Code Tour Challenge Final Round by VNG   **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**
- Developing FarmBot - Your Smart Farming Companion for the GDGoC Hackathon (team of 3), 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.

OAI Hutech Olympic in AI HCMC 2025 (Kaggle Competition)   **Ongoing**
- Utilized advanced computer vision models, including ResNet, YOLO, and EfficientNet, to classify mushrooms, achieving over 90% accuracy on the testing dataset.

AI Challenge by GDGoC HCMUS (Kaggle Competition)   **Ongoing**
- Applied Mask R-CNN and SAM models to perform image segmentation on rocks, achieving over 80% accuracy on the testing dataset.

EXPERIENCE

Volunteer at Contest Team at VNOI   **August 2024**
VNOI is a nonprofit organization promoting computer science education in Vietnam.
- Developed and proposed problems, some of which were used in high-quality contests such as the OI Contest and VNOI's 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

Languages: C++, Python.

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

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