



TRINH LAM HOANG THINH

AI ENGINEER

CONTACT

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 github.com/HoangThinh2024
 hoangthinh2024.github.io/Portfolio

SUMMARY

AI Engineer with experience in machine learning models, computer vision applications, and NLP solutions. Proficient in Python, PyTorch, TensorFlow, and YOLO with a research background in language models and real-time object recognition systems.

EDUCATION

Bachelor of Information Technology |
Expected 2025
Van Lang University
Specialized in Artificial Intelligence
GPA: 3.16/4.0

REFERENCES

Dang Dinh Hoa - Lecturer, Van Lang University
Email: hoa.dd@vlu.edu.vn

PROFESSIONAL EXPERIENCE

Research Assistant - AI Development

VAN LANG UNIVERSITY

August 2021 - Present

- Researched state-of-the-art language models (ChatGPT, Gemini, DeepSeek, Claude)
- Implemented computer vision algorithms for object detection using YOLO
- Developed neural networks for NLP and speech synthesis projects
- Mentored junior students in machine learning and computer vision projects

Data Analyst

TKELOG

October 2024 - December 2024

- Implemented predictive models for inventory optimization
- Developed product management system using OOP and .NET
- Reduced inventory costs by 15% through ML-powered forecasting

PROJECTS

Document Research System

[Document-Research-System](#)

- Developed document analysis system using NLP with BERT transformers for text understanding and contextual analysis
- Created semantic search engine with 92% retrieval accuracy on domain-specific queries
- Implemented Q&A capabilities using fine-tuned language models for information extraction
- Built knowledge graph visualization tools to display document relationships through web interface

3D Object Detection System

[3D_Object_Detection](#)

- Built real-time 3D object detection system using YOLOv8 with 95% detection accuracy
- Optimized for 30+ FPS performance through CUDA acceleration and model quantization
- Developed point cloud processing for accurate 3D space mapping with centimeter-level precision
- Implemented tracking algorithms with 87% accuracy in crowded scenes

Vietnamese Text-to-Speech

[WebPythonApp](#)

- Created Vietnamese TTS using Tacotron 2 architecture and WaveNet for audio synthesis
- Developed audio preprocessing pipeline for Vietnamese speech data with tone markers and dialect variations
- Built web interface with Flask for real-time text input and voice generation
- Implemented multiple voice profiles for different regional Vietnamese accents

SKILLS

AI & Machine Learning:

Deep Learning, Computer Vision, NLP, Reinforcement Learning, Speech Recognition

Programming:

Python (Advanced), PyTorch, TensorFlow, OpenCV, scikit-learn, C#, .NET

Data Processing:

PySpark, Pandas, NumPy, ETL, SQL, Data Visualization

Tools & DevOps:

Git, Docker, Jupyter, AWS, Azure ML, CUDA, GPU Optimization

Soft Skills:

Research, Problem-solving, Technical Documentation, Team Collaboration