

NGO VAN UC

AI ENGINEER

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SUMMARY

I aim to apply my AI expertise to real-world challenges, contribute to impactful projects, and grow through continuous learning and research.

TECHNICAL SKILLS

- **Machine Learning:** Linear Regression, Logistic Regression, K-mean, KNN, Decision Tree, Random Forest, SVM, Naive Bayes, PCA, Boosting-based methods...
- **Deep Learning:** ANN, Backpropagation, CNN, RNN, LSTM, Transformer, GRU, GAN, UNet, ConvNet models (ResNet, MobileNet...), Vi-Transformer. Building model, training, evaluation, deployment, optimization and fine-tuning models.
- **Computer Vision:** Experience with image processing, classification, object detection, object segmentation and feature extraction techniques...
- **Natural Language Processing & LLMs:** Hands-on experience with text processing, embeddings, prompt engineering, RAG system and fine-tuning LLM for specific task.
- **Federated Learning and edge device:** Knowledge of Federated Learning methods, collaborative model training, and privacy-preserving AI techniques for edge devices.
- **Programming Languages:** Python, C++, Java, SQL, MongoDB...
- **AI Frameworks & Tools:** PyTorch, TensorFlow, Keras, OpenCV, LangChain, Chainlit, Qdrant, Milvus, Numpy, Pandas, Scikit-learn...

EDUCATION

Engineering in Artificial Intelligence and Data Science

Dong A University
Sep 2020 - Dec 2024

- Degree classification: Very good.
- Graduation Project on "Building a Q&A Chatbot for Dong A Univ Admissions Using LLM".
- Internship at International Research Institute for Artificial Intelligence and Data Science.

WORK EXPERIENCE

June 2024 - Now

International Research Institute for Artificial Intelligence and Data Science

Position: AI engineer and researcher

PROJECTS

Vietnamese History Chatbot

- Description: An AI chatbot using LLM with RAG system for learning Vietnamese History.
- Functions: Question & answering, real-time voice chat, question suggestion...
- Frameworks/Tools: Chainlit, LangChain, Qdrant, MongoDB, Whisper, Ngrok, Docker...

Intrusion Detection System

- Description: Building an intrusion detection and warning system using YOLO
- Frameworks/Tools: Yolo, SMTP mail sending, OpenCV...

ADDITIONAL INFORMATION

- Language: English
- Number of Published: 06 papers (05 on international conferences).
- Awards:
 - Received the "Best Paper Award" for paper "*Explainable Lightweight Federated Learning for Load Forecasting with Smart Meter Data*" at DSBFI 2025.
 - Outstanding article in the Ministry of Information and Communications Journal 2023 (*IoT Botnet detection and classification using machine learning algorithms*).