

DINH MINH TOAN

Master's student

WORK EXPERIENCE



AI Engineer

BAP Software

In charge of AI Application Development

October 2023 to Now

Projects:

- Key member of LLM chatbot for blockchain platform: using RAG technique and few-shot prompting & finetuning with LoRA.
- Key member of Building Security System: people tracking system and zeroshot cross-modal retrieval system development.



Research Assistant

Da Nang University of Science and Technology

August 2023 to Now

- Research on using machine learning to analyze and monitor chemical substances through near infrared spectroscopy data and co-authoring papers with professor.



AI Intern in Japan

TAS Design Group

August 2023

Project:

- Development of LLM chatbot assistant for product manager: using RAG technique and ensemble learning with LLM.

EDUCATION HISTORY



Bachelor of Computer Science

Institution: Da Nang University of Science and Technology

Major: Artificial intelligence & Data science

August 2019 to September 2023

(4 years)



CONTACT ME

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SKILLS

- Programming language: Python.
- Deep learning: Pytorch, Tensorflow and Keras.
- Computer vision: Pillow, OpenCV.
- NLP: VnCoreNLP & Underthesea.
- LLM & VLM: Langchain, LlamaIndex, DSPy, Peft & Unsloth.
- Backend: Python with FastAPI.

COMPETITION

- 1st Prize in Competition to Optimize power use with AI - DEVDAY 2024 (1)
- Final round in HCM AI Challenge 2023 (2)
- 2nd Prize in Competition to Optimize power use with AI - DEVDAY 2023 (3)
- Top 10 Vietnam Online Hackathon 2020 (4)

PROJECTS



Medical Image Semantic Segmentation

Personal project

May 2024 to July 2024

Technology: SimpleITK, Nibabel, Pytorch.

Contributions:

- Processing medical images such as CT pelvic, dermatoscopic skin.
- Model training & evaluation for semantic segmentation.



Power Generation & Use Forecasting

Teamwork project in DevDay 2023 & 2024

April 2023 & May 2024

Technology: Pytorch, Scikit-learn, Pandas & Matplotlib.

Contributions:

- Leader of the team, in charge of team management, researching, proposing solutions & development.
- EDA & processing timeseries data.
- Model training & evaluation.
- Model ensembling.



News Summarization Agent

Personal project in DevDay 2023 & 2024

April 2023 & May 2024

Technology: Langchain, OpenAI API & Underthesea.

Contributions:

- Building an agent which combines three main modules: news scraping, news preprocessing & news summarization.



Video Text Retrieval System

Teamwork project in HCM AI Challenge 2023

August 2023 to October 2023

Technology: FAISS, Pytorch & FastAPI.

Contributions:

- Leader of the team, in charge of team management, researching, proposing solutions & development.
- Building a comprehensive system for video text retrieval, which is a combination of subtasks such as image-text retrieval, video & image understanding, object detection, OCR.

PUBLICATION

Efficient Video Retrieval with Advanced Deep Learning Models

SOICT 2023

[Show publication](#)