

# DINH MINH TOAN

AI Engineer

## WORK EXPERIENCE



### AI Engineer

BAP Software

In charge of AI Application Development

*October 2023 - August 2024*

Projects:

- Key member of LLM chatbot for blockchain platform: Implemented RAG technique, few-shot prompting, and fine-tuning with LoRA.
- Key member of Building Security System: Developed people tracking system and zero-shot cross-modal retrieval system.



### Research Assistant

Da Nang University of Science and Technology

*August 2023 - Present*

Projects:

- Researching machine learning applications for analyzing and monitoring chemical substances through near-infrared spectroscopy data and co-authoring papers with my professor.



### AI Intern in Japan

TAS Design Group

*August 2023*

Project:

- Developed an LLM chatbot assistant to support product managers in their daily tasks using RAG technique and ensemble learning with LLM.

## EDUCATION HISTORY



### Bachelor of Computer Science

Da Nang University of Science and Technology

Major: Artificial Intelligence & Data Science

*August 2019 - September 2023*

*(4 years)*



## CONTACT ME

**LinkedIn Profile:** [Minh Toan Dinh](#)

**Github Profile:** [mtoan65](#)

toandinh6501@outlook.com

+84 982 237 279

Da Nang, Viet Nam

## SKILLS

- Programming language: Python
- Deep learning frameworks: PyTorch, TensorFlow, Keras
- Computer vision: Pillow, OpenCV
- Natural Language Processing: VnCoreNLP, Underthesea
- Foundation models: Langchain, LlamaIndex, DSPy, Peft & Unsloth.
- Backend: Python with FastAPI

## COMPETITION

- 1st Prize, Competition to Optimize Power Use with AI - DEVDAY 2024 (1)
- Finalist, HCM AI Challenge 2023 (2)
- 2nd Prize, 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 - July 2024*

Technology: SimpleITK, Nibabel, PyTorch

Contributions:

- Processed medical images: CT pelvic.
- Trained and evaluated models for semantic segmentation.



### Power Generation & Use Forecasting

Team project for DevDay 2023 & 2024

*April 2023 & May 2024*

Technology: PyTorch, Scikit-learn, Pandas, Matplotlib

Contributions:

- Led team management, research, solution development.
- Conducted EDA and processing of time series data.
- Trained, evaluated, and ensembled models.



### News Summarization Agent

Personal project

*April 2024*

Technology: Langchain, OpenAI API & Underthesea

Contributions:

- Built an agent combining news scraping, preprocessing, and summarization modules.



### Video Text Retrieval System

Teamwork project in HCM AI Challenge 2023

*August 2023 - October 2023*

Technology: FAISS, Pytorch & FastAPI

Contributions:

- Led team management, research, solution development.
- Developed a comprehensive system for video text retrieval, which is a combination of subtasks such as image-text retrieval, video & image understanding, object detection, and OCR.

## PUBLICATION

### Efficient Video Retrieval with Advanced Deep Learning Models

SOICT 2023

[Show publication](#)

## PROJECTS



### Elementary Math Solving

Personal project

*December 2023*

Technology: Pytorch, Transformers & LoRA

Contributions:

- Conducted data processing & augmentation.
- Conducted model training & evaluation.



### E2E Audio Podcast Summarization

Capstone project

*April 2023 - July 2023*

Technology: Transformers, Pytorch, VnCoreNLP, Scikit-learn, Pandas & Matplotlib

Contributions:

- Building E2E application leveraging SoTA Deep learning models for audio podcast content summarization.
- Conducted data crawling & processing.
- Conducted model training & evaluation.



### Breast Cancer Analysis

Personal project

*March 2023 - May 2023*

Technology: Pytorch, Scikit-learn, Pillow

Contributions:

- Building application leveraging SoTA Deep learning models to support doctors to analyze early breast cancer.
- Conducted image preprocessing & augmentation.
- Conducted model training & evaluation.