# Sy-The Ho

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## EDUCATION

**Hanoi University of Science and Technology**                    **Hanoi, Vietnam**   *Sep 2020 - Jul 2024*

School of Information and Communication Technology

- Bachelor of Computer Science
- CPA: 3.78/4.0

## WORK EXPERIENCE

**AI Engineer** *(MISA JSC)*                                   **Hanoi, Vietnam**   *Jul 2024 - Now*
- Maintaining and improving performance of AI chatbot, especially the Knowledge Retrieval module.
- Research on Knowledge Retrieval Module of RAG chatbot systems.
- Research on Text Embedding model for multi-domain adaptation.
- Train LLM chat model for chatbots.
- Deploy Text Embedding and LLM models on GPU clusters, providing APIs for other applications.

**AI Fresher** *(MISA JSC)*                                    **Hanoi, Vietnam**   *Apr 2024 - Jul 2024*
- Study about RAG chatbots.
- Research on Text Embedding models.
- Develop a basic RAG chatbot.

## PROJECTS

**Estate Price Prediction using Description** (Github)                          *Sep 2023 - Dec 2023*
- Developing an application that helps people make predictions about the prices of various types of real estate based on it's description in the capital city of Hanoi, Vietnam.
- **Task:** Crawling data from websites, Preprocessing collected data, Performing EDA and data analysis, Applying deep learning model and Serving on Microsoft Azure.

**Translation** (Github)                                                        *Feb 2023 - Feb 2024*
- **Baseline:** Developing a translation model using LSTM and Attention mechanism to transate from English to Vietnamese.
- **Research improvement:** Research on using Transformer model with positional encoding applied at each hidden layer.
- **Dataset:** PhoMT. Training data and evaluation data include original data and original data with source and target sentences reversed, to serve the purpose of two-way translation.

**Image Captioning** (Github)                                                   *Apr 2022 - Jul 2022*
- Developing a Image2Text model that combine pretrained ResNet101v2 model and the Transformer Decoder model to generate text describing of the image.
- **Dataset:** Flickr8k.

## SKILLS

- **Languages:** Python, Rust, C/C++, Java, Kotlin, JavaScript, SQL.
- **Specialized Skills:** Natural Language Processing (NLP), Computer Vision (CV), Machine Learning, Deep Learning, Data Science, Big Data
- **Libraries and Tools:** Pytorch, Tensorflow, Numpy, Pandas, Git, Docker, Kubernetes, Linux
- **Soft Skills:** Presentation, Planning, Problem-Solving, Teamwork, Active Listening

## LANGUAGES

- **English** [Basic - able to read, understand and communicate in basic English]

## HONOURS AND AWARDS

**Final round BKAI Air Quality Forecasting Challenge 2022**                    *Oct 2022*
**Top 10 Final Nestquant Tournament 2023**                                      *Jul 2023*

## CERTIFICATIONS

**Top 10 Final Nestquant Tournament 2023**  (Link)
**Big Data Foundations - Level 2**  (Link)