



NGUYEN TRONG DANG-KHOA

Fresher AI Engineer

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CAREER OBJECTIVE

A highly motivated IT person with a solid foundation in **software development** and a strong interest in **Artificial intelligence**. Eager to contribute to a dynamic technological environment by applying problem-solving skills and a quick learning ability to build innovative, robust solutions, driving the development of impactful tech products.

EDUCATION

Ho Chi Minh City University of Industry and Trade

08/2021 - 04/2025

Bachelor of Information Technology | **GPA: 3.23/4**

- Research assistant.
- Participating in Euréka 2023.

SKILLS

Programming: Python, Java, Javascript, C++, SQL, NoSQL

Frameworks & Library: React, Pytorch, Pandas, Numpy, Scikit-learn, FastAPI, Flask, HuggingFace, Langchain, Gradio

Databases: MySQL, MongoDB, ChromaDB, Redis

Tools & Platforms: Docker, Jenkins, MLFlow, Git, Linux, Jupyter Notebook, Anaconda, Ollama

Deep Learning: CNN, RNN, LSTM, Transformers, CLIP, Fine-tuning, Distillation

Machine learning: logistic regression, KNN, decision trees, random forests, SVM

Others: Research skills, Learn fast, Growth mindset

Languages: Vietnamese (Native) | English: **TOEIC(LR) 720, IELTS 6.0**

My certifications: khoa15.github.io/certifications.html

EXPERIENCE

Backend Intern

09/2024 - 12/2024

EdunetJSC

- **Researching** technical documentation from the open-source Frigate codebase, implement the detection module on the application.
- **Studying** and adjusting configurations resulted in a **2% improvement** object detection accuracy in the production environment.
- **Researching** IoT documentation, assist in maintaining water quality monitoring stations which are IoT devices.

AWARDS AND HONORS

- Encouragement Award for "Emergent products and topics in the information technology field", HUIT. 7/2023
- First prize in "Young coder's Competition: Finding the Best and Brightest", HUIT. 6/2023
- Third prize in "Science Fair". 11/2020

PROJECTS


SIML RAG

 github.com/Khoa15/simpl-RAG

- Developed multi-instance support, which improved system scalability and fault tolerance.
- Implemented in-memory processing to achieve fast and low-latency data handling.
- Integrated RAG with Gemini, providing accurate and contextually relevant AI responses.
- Designed an auto-delete feature for inactive users, optimizing resource use and enhancing data security.

python fastapi react langchain

Sentiment Classification

 github.com/Khoa15/deep-learning/blob/main/src/models/rnn.ipynb

- Built a basic RNN to classify sentiment (positive, neutral, negative) on financial news using Kaggle data.
- Preprocessed text (lowercase, punctuation removal, stopword elimination, stemming) and mapped words to indices.
- Assessed RNN's strengths in short-term sequence modeling and noted limitations with longer texts.

python pandas numpy scikit-learn

Exci

 github.com/Khoa15/exci.git

- A simple app utilized Ollama to support users learning english. Using spaced repetition for personalized learning, create your own vocabulary collections. Search and save vocabulary through API dictionary.
- Prompting Ollama models to enhance vocabulary learning experience. One for AI chatbot, one for vocabulary search and save. Enhancing the user experience with a Flutter application.
- Developed a backend using ASP .NET to manage user data, vocabulary collections. Using Ollama system to handle AI chatbot and vocabulary search. Statistics and report in winform .NET application for admin.

Flutter ASP.NET Winform .NET Ollama Python

Age Classification

 [Khoa15/huit-ai.git](https://github.com/Khoa15/huit-ai.git)

- Responsible for developing and training Convolutional Neural Networks (CNNs) to classify images into 12 distinct classes using the UTKFace dataset.
- Build server python with Flask which is recieved request from client to classify age.
- Config client for request and receive response.

Python React native Tensorflow Flask

Note-Taking

 github.com/Khoa15/dury.git

- Developed a Spring Boot backend and REST API to manage notes, categories, and secure user authentication with full CRUD functionality.
- Integrated a Flask microservice for Optical Character Recognition (OCR), converting images to text using the Tesseract library.
- Designed and enhanced the Android application's UI to provide an intuitive experience for adding, updating, and deleting notes and categories.

Spring MongoDB Firebase Android (Java) Flask