



KHOA NGUYEN TRONG DANG

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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**

SKILLS

Programming: Python, Java, SQL, NoSQL

Frameworks & Library: Pytorch, pandas, numpy, scikit-learn, FastAPI

Databases: MySQL, MongoDB

Tools & Platforms: Docker, Git, Linux

Others: Machine Learning Algorithms, Computer Vision, Research skills, Fine-tuning Problem-solving

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

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|---|---------|
| • Participating in Eureka 2023. | 12/2023 |
| • 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

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

Mini game SQL Injection

🔗 github.com/Khoa15/mini-game-sql-injection.git

- Designed and developed a game that helps us understand SQL injection in a database course. It supports multiplayer using WebSockets.

HTML, CSS & Javascript

Bootstrap

Websocket

Expressjs

SQL Server