

Nguyen Minh Duc

Final-year student

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I am a final-year student pursuing a degree in Computer Science with a strong focus on software development. I have hands-on experience in database management and web application development, particularly using Sequelize to manage complex data models. I have developed a Library system for book borrowing and am currently building a Large Language Model (LLM) application for web and mobile platforms. I am highly motivated, detail-oriented, and possess a strong passion for learning and innovation. My collaborative spirit and positive attitude drive me to continuously improve my skills and contribute to impactful projects in the IT industry.



EDUCATION

Vietnamese German University

10/2021 - Now
Computer Science
A final-year Student

Frankfurt University of Applied Sciences

09/2023 - 02/2024
Computer Science
An exchange semester in Frankfurt, Germany with fully-granted DAAD scholarship.

SKILL

Excellent

Web API	MySQL
PostgreSql	Python
PyTorch	Github
Git	Data analyst
Data visualization	Spring
Spring Boot	MongoDB
C++	JavaScript
Java	Firebase
RESTful	ExpressJS
LLM	

Intermediate

HTML

WORK EXPERIENCE

07/2023 - 09/2023

Teaching Assistant | Teky

Support the teacher to teach secondary students about web development. Students can create a simple web using Python, HTML, CSS

PERSONAL PROJECT

07/2024 - 07/2024

Credit Card Fraud Detection

In this project, I aim to identify fraudulent transactions with credit cards. The objective is to build a fraud detection system using machine learning techniques. Historically, such systems were rule-based, but machine learning offers powerful new ways to detect Fraudulent Credit Card transactions and compare performances.

The project uses a dataset of 300,000 fully anonymized transactions. Each transaction is labeled either fraudulent or not fraudulent. Note that the prevalence of fraudulent transactions is very low in the dataset—less than 0.1% of the card transactions are fraudulent. This means that a system predicting each transaction to be normal can reach an accuracy of over 99.9% despite not detecting any fraudulent transaction. This will necessitate adjustment techniques. The best performance is achieved using the SMOTE technique.

06/2024 - 07/2024

Object Detection with YOLOv8

The Object Detection and Tracking Application integrates YOLOv8 with Streamlit, facilitating real-time detection and tracking of objects. Featuring a user-friendly interface, it accommodates tasks such as analyzing images and videos, processing webcam feeds, and handling YouTube videos. This versatile application streamlines the setup of detection tasks, delivering prompt and user-intuitive outcomes. Tailored for diverse scenarios, it presents a seamless approach to harnessing the robust capabilities of YOLOv8 for effective object detection and tracking.

06/2024 - 07/2024

File_Based_Chatbot

Allow users to input many files, then the bot will answer any questions from user based on provided files.

04/2024 - 06/2024

Library Management System

The online library management system project aims to streamline library operations, improve the user experience, and enhance access to library resources. It automates tasks such as book cataloging, tracking, and borrowing while offering user-friendly interfaces for staff and patrons. The system increases operational efficiency, improves accessibility, and provides a centralized platform for managing library resources.

04/2024 - 06/2024

Distributed Realtime Chat Application

A web application for chatting among users using Firebase for Data backups and also solve the problem of Fault tolerance, Scalability and Availability.

03/2023 - 05/2023

Object Tracking

Tracking objects, particularly my teacher face with any angles, implemented by C.

CERTIFICATE

Using Python for Research

12/2022

edX

IELTS

IELTS 6.5

AWARD

Frankfurt UAS Contest_Herbst Programming Day 2023

11/2023

Frankfurt University of Applied Sciences

- Won the 1st prize and became one of representatives for Frankfurt UAS joining The 2023 ICPC Northwestern Europe Regional Contest.

Cloudflight Coding Contest

10/2023

Cloudflight company

- Won the 1st prize with team in the AI board in Frankfurt area.

Fully-granted DAAD Scholarship

05/2023

DAAD

- I was selected among the Top 30 students in the CSE department of Vietnamese German University and received full sponsorship for tuition fees, living expenses, and transportation in Germany for a period of 6 months.