

DOAN TRONG HIEU

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EDUCATION

Bachelor of Automation and Control Engineering, Ton Duc Thang University 2018 - 2022

EXPERIENCE

AI Engineer 06/2024 - Present
FPT Software AI Center *Ho Chi Minh City, Vietnam*

AI Engineer 05/2023 - 06/2024
VTC Education *Ho Chi Minh City, Vietnam*

- Develops an LLM-based chatbot system that provides immediate and precise information about the company and its services, utilizing AI agents-based techniques to enhance customer interactions.
- Developed an application for photo generation using Stable Diffusion's checkpoints.
- Developed an application that generates videos featuring people from input photos speaking the input script.
- Developed APIs to enable AI models to retrieve data from presentation files.

AI Engineer Intern 07/2022 - 05/2023
VinBigData *Ho Chi Minh City, Vietnam*

- Developed a voice-based identification application that determines age, gender, and region, including data processing, model deployment, and a user interface.

AI Engineer Intern 04/2022 - 06/2022
FuviTech *Ho Chi Minh City, Vietnam*

- Managed electronic components, as well as providing customer service and support.
- Developed a AI model for detecting damages on electronic components.

SKILLS

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| Programming Languages | Python, JavaScript |
| Back End Development | FastAPI, NodeJS, Amazon Web Services |
| Front End Development | HTML/CSS, VueJS, Tailwind CSS |
| Data Engineering | Kafka |
| Databases | SQL (PostgreSQL), Vector (Qdrant), In-memory (Redis) |
| DevOps | Docker, Kubernetes, Helm, Istio |
| Machine Learning | PyTorch, LLM (LangChain, CrewAI), Commercial AI Models (OpenAI, Anthropic) |
| Project Management | Jira, Confluence |

PROJECTS

Large Language Model-powered Apps 01/2024 - present

- Description: Develops a system for data exploration (RAG-SQL-based QnA, extraction, classification, summarization) and content generation (travel plan, newsletters) tasks, along with custom automation flow, using LLM-Based Agentic workflows and AI Chatbot techniques. The project encompasses the entire lifecycle from data collection, data processing to app logic, backend server, frontend server, and deployment on a cloud Kubernetes cluster.
- Tech Stack: LangChain, CrewAI, FastAPI, Kafka, Qdrant, PostgreSQL, Streamlit, Vue.js-Nuxt.js, Docker, Kubernetes, Amazon Web Services, Fine-tuned Pretrained Open-source AI Models, Commercial AI Models

Gym Exercise Helper 09/2022 - 10/2022

- Description: Developed a real-time gym exercise monitoring system using BlazeFace pose detection and LSTM neural networks, improving workout performance by counting exercise repetitions and providing feedback to users.

- Tech Stack: OpenCV, TensorFlow

Face Verification for Security Applications

08/2022 - 09/2022

- Description: Developed a face verification solution using Siamese Network and OpenCV, leveraging deep learning techniques to compare and verify facial images.
- Tech Stack: OpenCV, TensorFlow

RoboVision: AI Mobile Robot

08/2021 - 03/2022

- Description: Developed a self-driving robot system integrating hardware design, edge AI, and computer vision to improve road safety, utilizing Convolutional Neural Networks (CNN) for traffic sign detection and lane maintenance, and designing the hardware with Solidworks and incorporating the Nvidia Jetson Nano for real-time edge AI processing.
- Tech Stack: OpenCV, Tensorflow

COURSES

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| • Building High-Level AI Applications with Language Models , <i>Mindmaid</i> | 03/2024 - 04/2024 |
| • System Design , <i>Engineer Pro</i> | 03/2024 - 06/2024 |
| • Backend Engineering , <i>Engineer Pro</i> | 02/2024 - 05/2024 |
| • Machine Learning Engineering , <i>robusto.ai</i> | 01/2024 - 06/2024 |
| • Data Structures and Algorithms , <i>BigO Coding</i> | 10/2023 - 11/2024 |
| • Artificial Intelligence , <i>AI VietNam</i> | 05/2022 - 05/2023 |

CERTIFICATES

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|---|-------------------|
| • TOEIC 835 , <i>IIG Viet Nam</i> | 04/2022 - 04/2024 |
| • Mechanical Design , <i>Dassault Systemes</i> | |