

Hieu Trung Dao

SOFTWARE ENGINEER · AI ENGINEER · ML OPS

Hanoi, Vietnam

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“Keep learning”

Summary

I am passionate about technology and find immense joy in diving deep into the realms of Data, Machine Learning, and Artificial Intelligence. Continuously learning and staying at the forefront of these fields is a driving force for me. I thrive in environments that foster personal and professional growth, as I believe in constantly pushing my boundaries and developing my skills. Moreover, I am eager to collaborate with talented team members, combining our strengths to contribute to the success of the company.

Work Experience

FPT Software Ltd.

Hanoi, Vietnam

AI ENGINEER

Jul. 2022 - Present

Research, build and develop large language model products. Use Large Language Model to do analytic, assessment and migration legacy languages. Use Large Language Model to do analytic, assessment and migration legacy languages.

Delivery the MLOps platform to store, process, and model for time series data based on serverless microservices architecture.

- Build both stream and batch processing for process data and inference.
- Continuous Delivery AI model on Edge and Cloud.
- Work with customers to ensure the user requirements and system requirements of the project.
- Participate in daily, sprint planning, sprint retro meetings.

Nautilus Tech JSC

Hanoi, Vietnam

AI INTERN

Mar. 2021 - Jun. 2022

- Research and testing deeplearning model for object detection, object tracking, ReID.
- Deploy models to the production environment.

Meditech JSC

Hanoi, Vietnam

AI INTERN

Jun. 2020 - Nov. 2020

- Train deep learning models and evaluate Computer Vision projects.
- Deploying models as REST API.

VNP Group

Hanoi, Vietnam

AI INTERN

Nov. 2019 - Apr. 2020

- Data preprocessing and text (clean data, label data, crawl data).
- Building application to extract information from documents.
- Contributing to Deeplearning for NLP tasks in resume extraction project.

Projects

LLMed - Medical Suggestion

PROJECT

- Utilizes a large language model to suggest potential disease, drugs for diagnosed disease and check compatibility of suggested drugs.
- Making vector database of disease and drugs by scraping and embedding.

Intelligent Project Management Assistant

PROJECT

- Utilizes a large language model (finetune LLAMA model) to provide assistance to project managers in planning, creating project features, writing user stories, and assigning tasks.
- By leveraging the capabilities of the language model, this project aims to streamline the project management process and enhance the efficiency and effectiveness of project managers.

Sticker AI

AI CENTER HACKATHON 2023

- Using AI model to generate sticker based on Stable Diffusion.
- Optimize and building Triton inference server to deploy large diffusion model.

Time Series MLOps Platform

PRODUCT

- Building MLOps platform that uses anomaly detection to automate product and machine inspection and health monitoring, intending to support predictive equipment maintenance.
- The platform can be easily deployed to any edge-devices with low-code requirements from the client. The result supports machine health monitoring, even with no abnormal data.
- GOLD GLOBEE® WINNER 2023 for IT Solutions for Manufacturing
- Gold Asia-Pacific Stevie Awards 2023 for Innovation in Construction, Manufacturing or Materials
- Silver Stevie® Award for Artificial Intelligence/Machine Learning Solution at the 2023 International Business Awards®

Credit scoring

KALAPA'S CREDIT SCORING CHALLENGE

- Building machine learning model to predict credit score. It is a measure of an individual's ability to pay back the borrowed amount.
- Data cleaning, feature selection, feature engineering and use woe-iv method. Testing different models, hyper-parameter for tuning.
- Top 4% (private score: 0.25318, public score: 0.25236)

Education

Troy University

Hanoi, Vietnam

B.S. IN COMPUTER SCIENCE

2018 - 2023

- Studied at HUST Campus (Hanoi University of Science and Technology)
- GPA: 3.0

Honors & Awards

2023	GOLD GLOBEE® WINNER 2023 for Manufacturing , IT World Awards®	International
2023	Gold Award for Innovation in Construction, Manufacturing or Materials , Asia-Pacific Stevie® Awards	International
2023	Silver Award for AI/ML Solution , 20th Annual International Business Stevie® Awards®	International
2023	Winner , AI Center Hackathon 2023	Hanoi, Vietnam
2021	The Third position at first phase , AICOVID 115M Challenge	Hanoi, Vietnam

Skills

Programming	C++, Python, JAVA, Go
Data	Hadoop, Spark, Flink, Kafka, DVC, Parquet, Delta Lake, Databricks, MySQL, PostgreSQL, MongoDB, InfluxDB, Milvus, FAISS
Development	Tensorflow, Pytorch, JAX, Pytorch Lightning, DeepSpeed, Streamlit, Gradio, BentoML, Triton, Mlflow, Wandb, Feast, Pandas, Numpy, Sklearn, lightgbm, Librosa, OpenCV, Selenium, Accelerate, Diffusers
Deployment	Azure, Docker, Kubernetes, Jenkins, Nginx, ONNX, TensorRT, CoreML, Seldon, Slurm, Git, TGI, Ray
Languages	Vietnamese, English

Certificates

Microsoft, AI-900: Azure AI Fundamentals
Databricks, Data Engineer Associate
Databricks, Lakehouse Fundamentals
Udacity, Machine Learning DevOps Engineer Nano Degree
Microsoft and LinkedIn, Career Essentials in Generative AI