

# Hieu Trung Dao

SOFTWARE ENGINEER · AI ENGINEER · ML OPS

Hanoi, Vietnam

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“Keep learning”

## Summary

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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

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### FPT Software Ltd.

Hanoi, Vietnam

AI ENGINEER

Jul. 2022 - Present

- Research, build and develop products based agentic tools and LLM.
- Prepare, fine tune and benchmark LLM with synthetic domain dataset.
- 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

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### Legacy Migration Platform

PRODUCT

- Synthetic data generation and ensure data quality and diversity.
- Train and align large language model with specific domain knowledge and tasks.
- Integrated LLM in task based and agent based application.
- Optimize LLM latency and throughput.

### 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 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

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### 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

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

## Skills

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

## Certificates

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**Databricks**, Data Engineer Associate

**Udacity**, Machine Learning DevOps Engineer Nano Degree