Nguyễn Đức Trọng

AI engineer

Semper Paratus

(+84) 931 469 045

District 6, Ho Chi Minh city

trongnd02@gmail.com

github.com/diligent-man

linkedin.com/in/trongnd02/

Education

FPT University - HCM Campus

Bachelor of IT - Artificial Intelligence

Oct 2020 - June 2025 (Full time)

GPA: 8.7/10 (3.48/4)

Languages

Vietnamese: native

English: IELTS 6.0 (Exp. 10/2024)

Programming Languages

Python, Java, Latex, Lua.

Databases

TSQL

Frameworks & Libraries

Pytorch, Keras, Huggingface, Tensorflow, Cupy, Scipy, OpenCV, Numpy, FastAPI, gradio, ffmpeg

Others

Docker, Linux (Ubuntu), Git, Vercel, Cloud (EC2), Jira, Microsoft Project, Jenkins

Certificates

Coursera organizer

Tensorflow Developer, Natural Language Processing, Academic Writing, Project Management, Deep Learning IBM introduction to ML Software Development Lifecycle

Hackerrank organizer

Basic Python, Basic SQL, Intermediate SQL

Pastimes

Coding, Reading, Listening to music, Traveling, Studying language

Specialty

- Experience in research, plan, design and implement a comprehensive AI solution from scratch, mostly CV-related projects.
- Have a good foundation in ML, DL, CV & NLP.
- Have an exposure to LLM and generative AI.
- Skilled in data processing, model training, evaluating, & deployment.

Experience

Face attribute

Internship at Quy Nhơn AI

01/01/2024 - 26/04/2024

Role: Model trainer & evaluator.

Description: Infer age, gender based on extracted face features from deep learning models.

Task: Label image data with a simple self-implemented CLI tool and implement train/ test pipeline for gender classification task.

Skill set: Python, Pytorch, OpenCV, Docker, Jenkins.

Projects

Anomalous Human Activity Detection By Weakly Supervised Learning

Bachelor capstone project

01/01/2025 - 15/05/2025

Description:

- Scheduled and managed all activities of a five-person team from research to execution.
- Applied knowledge distillation technique to optimize model parameters but maintaining credibility of predicted result.
- Employed MLOps practice (4/9 principles) with the assistance of third-party services, namely lakeFS, mlflow, and Github, into solution pipeline to mitigate technical debt phenomenon.
- Self-hosted data server for orchestrating gathered data, which served as a part of practicing MLOps.

Impact: Reduce intensive human annotating and be a preliminary step for build smart city down the road.

Future development: Extend experimentation to other kinds of learning, integrate more third-party services for serving other MLOPs principles.

Skill set: Python, Pytorch, Docker, lakeFS, mlflow, Huggingface, Bash, ffmpeg, Microsoft Project, multiprocessing.

Cursor Controling with Hand Gestures

Personal project

Status: Refactoring (15/06/2023 - present)

Description: A simple app that utilizes a pretrained handlandmark detector of MediaPipe Solution to perform several pre-defined actions such as mouse hovering, volume control, tab transition, etc.

Skill set: Python, OpenCV, MediaPipe Solutions, Async handling.

Fashion AI (FAI)

Entrepreneurial project
09/09/2024 - 03/12/2024

Description:

- Coordinated and reconciled all activities of an interdisciplinary eight-person team from conceptualizing to market launch.
- Implemented virtual try-on pipeline (VTON) and API for communicating with .Net back-end.
- Handling tremendous stable diffusion pipeline inference with disk offloading approach.

Impact: Support buyers' decision with generative AI technology which creates realistic images of their worn clothes.

Skill set: Python, Pytorch, Docker, Huggingface, OpenCV, ONNX.

Extracurricular Activities

Spring Volunteer Campaign

Lửa Tâm Club (USSH)
01/01/2022 - 20/02/2022

Participated in online fundraising campaign during COVID-19 pandemic outbreak period in Ho Chi Minh city, and the funded money was donated to the Thiên Ân Elderly Care Center at Thu Duc city.

Accreditations

Top 10 outstanding graduates

FPT University - HCM campus
14/10/2025

Being recognized as a member of top 10 outstanding AI-specialized graduates in the year of 2025.