DANG NGUYEN DUC HUY

Edge AI Engineer

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TARGET

Short-term goal

To gain deep hands-on experience in deploying optimized Computer Vision models on resource-constrained edge devices, and integrating on-device AI with Robotics and embedded systems to solve real-world challenges.

Long-term goal

To specialize in Edge AI, researching and implementing SOTA techniques across model optimization, Federated Learning, and Reinforcement Learning, to build efficient intelligent systems deployable in constrained environments.

SKILLS

- **Programming Languages**: Python, C++, Javascript
- **AI/ML**: Pytorch, OpenCV, Huggingface, LangChain, ONNX, TensorRT
- **Edge/Embedded**: ESP32 / ESP32-CAM, Arduino UNO
- **Tools**: Git/GitHub, Docker, FastAPI, NumPy, Pandas

PROJECTS

ROBOT ARM CV - VISION-BASED ROBOTIC ARM CONTROL

10/2025 - 3/2026

Github: https://github.com/DangNguyenDucHuy/robot-arm-cv

- Achievement: Top 1 Showcase Innovation Day 2026 (SoICT, HUST)
- Developed a real-time Computer Vision pipeline to detect arm and hand keypoint from an edge-device camera stream (ESP32-CAM), sending control commands to the robotic arm via serial communication.
- Fine-tuned a YOLO-based pose model (yolo26n-pose) via transfer learning in PyTorch; evaluated accuracy-latency trade-offs across MediaPipe and Ultralytics YOLO to select the most deployment-efficient approach for the target hardware.
- Constructed a custom dataset of 400+ annotated hand images, augmented with a 26k-sample public dataset; optimized model export pipeline for edge deployment.

CARBONWISE - VOLUNTARY CARBON CREDIT EXCHANGE PLATFORM

3/2025 - 5/2025

Website: https://greenmind-ohck.onrender.com/

- Achievement: Top 10 IStartup 2025 (NEU)
- Built a Retrieval-Augmented Generation (RAG) chatbot explaining carbon credits, ESG policies, and platform usage, using LangChain.js and the Gemini API.
- Deployed full-stack web platform, including authentication, API services, and chatbot integration.

EDUCATION

HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

09/2024 - Present

Computer Science (IT1)

GPA: 3.5/4.0

LANGUAGES

English: IELTS 7.0

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