



Doan Duy Long

VISION AI INTERN | COMPUTER VISION & AUTOMATION

Product-minded Vision AI intern with hands-on experience building computer vision prototypes from raw visual data to model workflow, interface, evaluation, and technical presentation. Focus areas include YOLO detection, OCR automation, image preprocessing, PyQt dashboards, and edge-AI deployment thinking.

CONTACT

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LINKEDIN

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LOCATION

Ho Chi Minh City, Vietnam

CORE SKILLS

Computer Vision

Object Detection, OCR, Multiple Object Tracking, 3D Computer Vision, Image Preprocessing

ML Engineering

YOLOv8/v11, PyTorch, TensorFlow, OpenCV, Model Evaluation, Data Augmentation

Programming

Python, C++, C# basics, MATLAB, ModelSim

Product Workflow

PyQt5 dashboard, n8n automation, Git/GitHub, Jupyter Notebook, Google Colab

EDUCATION

University of Transport and Communications, HCMC Campus

B.Eng. Electronics & Telecommunications
2021 - Present | GPA: 2.78/4.0

AWARDS

2nd Place - Student Scientific Research Competition, 2024-2025

3rd Place - Student Scientific Research Competition, 2024-2025

3

AI CASE STUDIES

10k+

IMAGE SAMPLES

91.8%

BEST VALIDATION MAP

2

RESEARCH AWARDS

SELECTED PROJECTS

VisionEdge Driver Safety Copilot

MOBILITY AI R&D PROTOTYPE | 2024 - 2025

- Designed a driver-safety copilot concept for detecting distraction and fatigue cues from in-cabin visual data.
- Built a YOLO-based workflow over 10,000+ image samples with preprocessing, augmentation, validation, and iterative evaluation.
- Prepared the prototype around real-time NVIDIA Jetson constraints, reaching up to 80% diagnostic accuracy.

AquaSight Biomass Intelligence

AQUACULTURE ANALYTICS PROTOTYPE | 2024 - 2025

- Built an aquaculture intelligence workflow for counting, monitoring, and reporting fish movement under noisy underwater conditions.
- Curated 2,000 image samples and implemented a YOLOv11m tuning pipeline, achieving 86.8% mAP50-99.
- Designed a PyQt5 operator interface and visual reporting layer to make model outputs usable for non-technical workflows.

DocuFlow Utility OCR

DOCUMENT AI AUTOMATION PROTOTYPE | 2024 - 2025

- Created a document intelligence concept for extracting structured fields from imperfect captures using detection-first OCR.
- Combined noise reduction, ROI detection, validation logic, and OCR-ready preprocessing, reaching 91.8% mAP50-90.

KEYWORDS

Vision AI

Computer Vision

YOLO

OCR Automation

Edge AI

PyTorch

OpenCV

Data Augmentation