



# Tran Minh Duong

## AI ENGINEER INTERN

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## About Me

I build and deploy production-ready ML systems with an eye for reliability and scalability. I have experience in designing and operating RAG (Retrieval-Augmented Generation) chatbot and document-based retrieval pipelines.

Looking for AI Engineering / MLOps roles where I can ship and improve model delivery.

## Education

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| <b>BSc</b> <b>La Rochelle University</b> , Computer Science<br>• Student in exchange program   | La Rochelle, France<br>Sept 2025 – present |
| <b>BSc</b> <b>University of Science and Technology of Hanoi</b> , Information and Communication Technology (Double Degree)<br>• Ranked 1st among Double Degree students<br>• GPA: 18.46/20 in Year 1; 18.50/20 in Year 2 | Hanoi, Vietnam<br>Sept 2023 – July 2025    |

## Experience

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| <b>ICTLab - USTH</b> , Research Assistant<br>Contributed to research on <b>context-aware fire detection</b> using Visual Language Models<br>• Published the <a href="#">fire context awareness dataset</a> to benchmark multimodal VLMs<br>• Evaluated Qwen2.5VL, InternVL3 and Gemma3 by implementing pipelines to compare accuracy, precision, recall, F1-score and inference latency<br>• Fine-tuned VLMs using <b>PEFT/LoRA</b> to boost model accuracy up to 85% - 90% | Hanoi, Vietnam<br>Mar 2025 – July 2025 |
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## Projects

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| <b>Legal Contract Analyzer</b> <a href="#">🔗</a><br>RAG Chatbot for understanding and extracting key information from legal documents<br>• Complete MLOps project with CI/CD and Monitoring<br>• Uses RAG with semantic search, embeddings + LLMs to retrieve relevant sections<br>• <b>Techstack</b> : Github Actions, FastAPI, vLLM, ChromaDB, Docker, Prometheus/Grafana | July 2025 – Aug 2025 |
| <b>Fire Detection System</b> <a href="#">🔗</a><br>IoT-based real-time fire detection and alerting system<br>• YOLOv8 trained on 1k+ annotated flame/smoke images (0.85 mAP0.5 and Precision = 0.95)<br>• Integrated Dockerized inference with Telegram alerts for live notifications<br>• <b>Techstack</b> : Roboflow, Ultralytics YOLOv8, Docker, OpenCV                   | Mar 2025 – Apr 2025  |

## Skills

**Programming Languages:** Python (proficient), Java, C++, Matlab, Bash  
**ML / DL:** PyTorch, Hugging Face transformers, scikit-learn, numpy, matplotlib  
**Tools / MLOps:** Git, Docker, CI/CD, FastAPI, Prometheus, Grafana  
**Languages:** English C1 (IELTS 7.5), French B2 (DELF B2)