

Working on High-Performance AI & ML Systems dohoangvu.forwork@gmail.com | +84 835901375
Hoang Van Thu street, Phu Nhuan District, Ho Chi Minh City, Vietnam Portfolio | GitHub | LinkedIn

CAREER OBJECTIVE: Seeking an AI Engineer role where I can turn applied AI research into reliable products, while deepening my expertise in agentic AI, foundation models, and high-performance ML systems.

EDUCATION

The Saigon International University Expected Graduation: 2027
Bachelor of Artificial Intelligence Ho Chi Minh City, Vietnam
GPA: 3.65/4.00

EXPERIENCE

AI Engineer | IMESPRO Co., Ltd. June 2026 – Present

- Researched and developed visual anomaly detection models to detect logical and structural defects on industrial assembly lines, achieving **96.7% iAUC** and **80.2% sPRO** with **<35ms** latency.
- Built a specialized STT engine for an automated visual acuity testing kiosk in eye hospitals, achieving **99.7% accuracy** on Sloan letter recognition across Northern, Central, and Southern Vietnamese accents.
- Designed a multimodal AI workflow analyzing raw video footage to autonomously sequence, edit marketing reels, and generate promotional graphics for real estate.

AI Engineer Intern | IT Department | Hoa Binh Corporation February 2025 – June 2025

- Integrated RAG and MCP-based AI tool orchestration into an internal support system, improving employee response accuracy and knowledge accessibility.
- Reduced average document lookup time by ~30% by optimizing vector retrieval and query routing; deployed services via Docker and GitHub Actions.

PROJECTS

- MeeTrack: Local-First Meeting Intelligence & Management** [GitHub](#)
Personal project – 06/2026 → 08/2026 – Lead Developer
Built a local-first meeting intelligence platform featuring automated smart note-taking, discussion summaries, and action item tracking, powered by on-device speech separation and speaker diarization.
- Hestia: Multimodal Food Chemistry & Safety Assistant** [GitHub](#)
Team project – 04/2026 → 07/2026 – Technical Lead
Built a food safety assistant using Google ADK featuring image-based ingredient detection, cooking hazard screening, and verified citation tagging across 70,000 FooDB and EFSA toxicological entities.
- Ready4RAG: High-Precision Dual-Layer RAG Pipeline** [GitHub](#)
Personal project – 01/2026 → 02/2026 – Lead Developer
Designed a dual-layer retrieval system combining 4 types vector search (Qdrant) and knowledge graph to improve factual accuracy on technical documents.
- Face Attendance: Kiosk-Based Recognition & Anti-Spoofing** [GitHub](#)
Personal project – 11/2025 → 12/2025 – AI/Vision Engineer
Built a production-grade biometric kiosk utilizing 2D Similarity Transform face alignment and MiniFASNet liveness detection, achieving 93.75% recognition accuracy with real-time spoofing prevention.
- AcaRead: AI Academic Assessment System** [GitHub](#)
Team project – 03/2025 → 12/2025 – Technical Lead
Educational platform utilizing LLM and Docling to autonomously generate IELTS standard exams from academic research papers.

COMPETITIONS: Viettel AI Race 2025 • AI Challenge 2024–2025 • Zalo AI Challenge 2023

RESEARCH PAPERS: TARS (First Author) | [SOICT, Springer](#)
VizQuest (Co-Author) | [SOICT, Springer](#)

SKILLS

TECHNICAL SKILLS:

- AI/ML:** Deep Learning, Multimodal AI, Retrieval Systems, Agentic AI, Model Evaluation
- Programming:** Python (Agentic AI & ML), Rust (High-Performance Systems & Inference)
- Frameworks:** PyTorch, Hugging Face, OpenCV, LangChain, Google ADK
- Data & Retrieval:** Qdrant, Milvus, FalkorDB, PostgreSQL, Redis
- Backend & MLOps:** FastAPI, Nodejs, S3 API, Docker, MLflow, DeepEval, GitHub Actions

AREAS OF INTEREST:

- Large Language Models
- Speech & Audio AI
- Model Optimization

SOFT SKILLS:

- Research communication & scientific writing
- Experiment design and evaluation
- Critical problem solving & analytical thinking
- Technical documentation & knowledge sharing

LANGUAGES:

- English: Working proficiency
- Vietnamese: Native