DO HOANG VU

AI ENGINEER INTERN

Specializing in production-ready RAG systems and multi-agent orchestration

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Portfolio | GitHub | LinkedIn

EDUCATION

The Saigon International University — **Expected Graduation: 2027**

Ho Chi Minh City, Vietnam — *Bachelor of Artificial Intelligence*

GPA: 3.65/4.00

EXPERIENCE

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.
- Worked in a cross-functional Agile team to deploy and maintain the system using Docker and GitHub Actions.

PROJECTS

- **Ready4RAG: High-Precision Dual-Layer RAG Pipeline**

  Personal project – 01/2026 → 02/2026 - Lead Developer

  Designed a dual-layer retrieval system combining 4 types vector search (Qdrant) and knowledge graph (NetworkX) to improve factual accuracy on technical documents.

- **AcaRead: AI Academic Assessment System**

  Team project – 03/2025 → 12/2025 - Technical Lead

  Educational platform utilizing LLM and Docling to autonomously generate IELTS standard exams from academic research papers.

- **TwinSelf: Digital Twin Chatbot**

  Personal project – 09/2025 → 10/2025 - Lead Developer

  Built a multi-memory RAG chatbot with semantic, episodic, and procedural memory layers inspired by cognitive architectures with MLOps integration via MLflow and automated quality evaluation using DeepEval.

- **Face Attendance: Kiosk-Based Recognition & Anti-Spoofing**

  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, maintaining 100% spoofing detection in optimal conditions and 93.75% recognition accuracy.

COMPETITIONS

- **Viettel AI Race 2025** – Knowledge Mining from Technical Documents and RAG-based QA (Top 5 teams in Round 1)
- **AI Challenge 2024 – 2025** (Top performance focus: temporal modeling for video retrieval)
- **Zalo AI Challenge 2023** (audio/music generation tasks)

SKILLS

TECHNICAL SKILLS:

- **Python: LLM pipelines, RAG systems, multi-agent systems, data processing**
- **Vector databases: Qdrant, Chroma, FAISS, Redis (for caching)**
- **LLM frameworks: LangChain, LangGraph, CrewAI**
- **Backend: FastAPI, Node.js**
- **MLOps/LMOps: MLflow, DeepEval, Docker, GitHub Actions**

SOFT SKILLS: — **LANGUAGES:**

- Research communication & scientific writing
- Experiment design and evaluation
- Collaborative coding & version control (Git workflow)
- Critical problem solving & analytical thinking
- Technical documentation & knowledge sharing

English: Working proficiency

Vietnamese: Native