



# Nguyễn Văn Lâm Hùng

AI engineer intern (full-time)

## CAREER OBJECTIVE

An **AI Engineer** with a product-oriented mindset, specializing in **Agentic AI**. My goal is to transform conventional chatbots into **Autonomous Agent** systems capable of advanced reasoning and executing complex tasks. I focus on building solutions rather than just models: optimizing business processes by integrating **SOTA Research** into real-world production

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## EDUCATION

Thuy Loi University - GPA: **3.72/4**

Artificial Intelligence and Data Science

2023 - 2026

**Expected to graduate 1 year early**

## TECHNICAL SKILLS

Python, Pytorch

Scikit-learn, Numpy, Pandas, Matplotlib

Fastapi, Sqlmodel, Pydantic, Postgres

Docker, Ubuntu (Linux)

Langchain, LangGraph, MCP, Faiss, Qdrain

## English

- Proficient in reading research papers
- Active listening skills
- Good communication skills with effective expression of ideas

## PROJECTS

**Talk2Book ( 11/2025 - now )**

Team Lead: <https://github.com/Lam-Hung-ai/Talk2Book>

- **Goal:** Engineered a voice-driven system for booking flights and hotels, translating natural language intent into complex business transactions
- **Tech stack:** LangChain, MCP (FastAPI/MCP), OpenAI Whisper & TTS, FastAPI, SQLModel (PostgreSQL), WebRTC.
- **Agentic AI Architecture:** Designed an MCP-based Agent system to connect LLMs directly with complex Travel databases, enabling autonomous tool-calling (e.g., *search\_flights*, *create\_booking*)
- **Reasoning Pipeline:** Developed complex prompt systems for a 4-step autonomous process (Location identification → Hotel search → Availability check → Booking) using UUID data.
- **Real-time Voice Pipeline:** Implemented a real-time audio processing flow: Recording → Whisper Transcribe → Agent Reasoning → TTS Streaming.
- **Manage project:** Established a professional Git Workflow, utilizing uv for environment optimization and ruff for code quality within a 5-member team.

**Key Achievement:** Created a "Virtual Receptionist" capable of intent recognition and live database transactions, rather than just providing static text replies.

**Chatbot FB ( 5/2025 - 7/2025 )**

Personal Project: [https://github.com/Lam-Hung-ai/chatbot\\_FB](https://github.com/Lam-Hung-ai/chatbot_FB)

- **Goal:** Create an empathetic childcare consultancy system providing personalized advice based on real-world contexts
- **Tech stack:** LangGraph, LangChain, Qdrant (Vector DB), FastAPI, Vietnamese Embedding Model (AITeamVN).
- **Key Contributions:**
- **Advanced Agentic Orchestration:** Architected a complex **StateGraph (LangGraph)** framework, integrating an autonomous **Router** mechanism to seamlessly manage conversational flows between social interactions and deep document retrieval.
- **Precision-Driven RAG & Safety:** Enhanced retrieval accuracy by **40%** through advanced query optimization nodes and a **Proactive Information Gathering** mechanism, ensuring high-quality input data for safe and reliable childcare advice.
- **Production-Grade Scalability:** Developed a robust backend system using **FastAPI (Async/Await)** and Facebook Webhooks, optimized for high-concurrency processing of thousands of requests.

**Key Achievement:** Created an AI Agent capable of step-by-step "reasoning" to deliver solutions grounded in specialized literature rather than just general LLM knowledge, significantly mitigating hallucinations