

# NGUYEN HAI THIEN

AI Engineer · Data Engineer

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## EDUCATION

**VNUHCM - University of Information Technology**

Ho Chi Minh City, Vietnam

Bachelor of Information Systems

Sep, 2023 - Present

**Cumulative GPA:** 8.29/10

**Interests:** Natural Language Processing (NLP), Agent-based Workflow Design, Data Analytics

**Highlighted Certifications:** Google Data Analytics (Completed: 2024) & Google Advanced Data Analytics (Completed: 2024)

## SKILLS

**Programming**

Python, SQL, C++, Java, TypeScript

**Technologies & Cloud**

LangChain, Git, PyTorch, FastAPI, Docker, Next.js, Linux, CI/CD, Google Cloud, Azure (In Learning)

**Languages**

Vietnamese (Native), English (Good reading & listening, conversational; IELTS scheduled for May 2026)

**Others**

Problem Solving, Quick Learner, Prompt Engineering

## PROJECTS

**VN Legal Intelligence Platform**

Jan 2026 - Apr 2026

*Personal Project*

*Ho Chi Minh City, Vietnam*

🌐 GitHub Repo

- **Agentic RAG Architecture:** Implemented a 7-node LangGraph pipeline utilizing a router, retriever, and checker workflow to ensure high-quality legal reasoning and context-aware responses with verifiable citations.
- **Evaluation & Deployment:** Developed an automated RAG evaluation framework achieving an accuracy score of 4.67/5 and established a production-grade MLOps pipeline for serverless deployment on Google Cloud Run.
- **User Interface & Interaction:** Built a responsive React/TypeScript frontend supporting multi-turn conversations, secure law bookmarking, and sub-second query latency.

**Tech Shop With Multi Agent System**

Feb 2026 - Apr 2026

*Personal Project*

*Ho Chi Minh City, Vietnam*

🌐 GitHub Repo

- **Multi-Agent Orchestration:** Integrated 4 specialized AI agents (Host, Search, Advisor, Order) using LangGraph to manage complex product search and purchase advisor workflows.
- **Multimodal Vector Search:** Developed a semantic search engine for both images and text using Qdrant vector database to provide personalized tech product recommendations.
- **Conversational Intelligence:** Designed an Advisor agent capable of answering complex technical queries by analyzing user requirements against dynamic product catalogs.

**Local Text2SQL Platform**

Mar 2026 - Apr 2026

*Personal Project*

*Ho Chi Minh City, Vietnam*

🌐 GitHub Repo

- **Precision Fine-tuning:** Leveraged QLoRA and a dual-dataset strategy (Spider & sql-create-context) to optimize a Gemma-2-2B SLM, achieving up to 95% execution accuracy in complex Text-to-SQL conversions.
- **Benchmark-driven Development:** Conducted iterative A/B testing across three model versions, utilizing a custom Gold Standard evaluation suite to validate structural reliability and industry-standard SQL aliasing.
- **Privacy-Focused Infrastructure:** Architected a fully offline execution pipeline using FastAPI and Safetensors to ensure 100% data privacy and secure local inference on sensitive database schemas.