

# NGUYEN HONG TIN

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## SUMMARY

Backend Developer with 2+ years of experience building reliable and scalable APIs for web applications using Python and FastAPI. Experienced in developing product features, optimizing performance, and integrating third-party services. Has also worked on AI-integrated systems using LLMs and LangChain for specific use cases, bringing flexibility across product types.

## WORK EXPERIENCE

### PDH INFORMATION TECHNOLOGY LTD

April 2025-Present

#### Backend Developer (focus chatbot)

- Collaborated with the frontend team to design and integrate a real-time chatbot interface, reducing development time by 20% and ensuring smooth interaction between backend services and the web platform.
- Designed and implemented an intelligent chatbot solution utilizing LLMs through LangChain, incorporating Retrieval-Augmented Generation (RAG) to deliver personalized, real-time consultation services for a healthcare clinic in Ho Chi Minh City, handling **over 1,500+ patient inquiries during pilot testing**.
- Processed and integrated both structured and unstructured internal data (e.g., service FAQs, schedules) into the RAG-based AI system, achieving approximately **90% response relevance based on internal validation**.
- Built backend services using FastAPI, enabling real-time data processing, prompt routing.
- Integrated the chatbot into the clinic's CodeIgniter-based web platform.

Technology: LangChain, RAG, Python, FastAPI, CodeIgniter, RESTful API, Docker, MySQL,...

### ADHIGHTECH

August-December 2024

#### Fullstack Developer (focus backend) - [brandsmetric.com](#)

- Collaborated with a cross-functional team including a mentor and technical contributors to develop an automated data collection system using Python, Selenium, and BeautifulSoup, processing **over 100,000 product reviews** from Amazon and integrating CAPTCHA solving with pydub and EasyOCR.
- Contributed to the design and implementation of NLP pipelines leveraging PhoBERT for sentiment classification and LangChain-powered LLMs for keyword extraction and summarization, **achieving over 85% accuracy** in analyzing unstructured user feedback.
- Co-developed and deployed a modular backend using FastAPI, incorporating RESTful APIs, asynchronous task handling, and LangChain prompt routing, reducing response latency by **approximately 30% during batch processing**.
- Worked with frontend collaborators to deliver a Laravel-based dashboard that visualizes sentiment trends and keyword insights across multiple product categories.
- Participated in deployment and production setup using aaPanel, contributing to server configuration, scheduled automation, and secure access management.

Technology: Python, Selenium, LangChain, FastAPI, PhoBERT, EasyOCR, BeautifulSoup, pydub, Laravel, MySQL, Docker,...

#### Fullstack Developer (Freelance)

July 2024-Present

- Developed two supervised machine learning models (classification and regression) using a structured dataset provided by **Monash University**, focusing on data preprocessing, model selection, and performance evaluation.
- Built an end-to-end automation system to collect and monitor **e-commerce data**, including price fluctuation tracking, leveraging web scraping and scheduling techniques.
- Created a question bank generation tool for pilot aptitude tests, sourcing and processing structured content from the **Vietjet Air** official website, enabling randomized test creation and export.
- Currently collaborating with a doctoral researcher in Hanoi to develop a medical diagnostic system that assists physicians in analyzing fetal brain MRI cross-sectional images, aiming to support early anomaly detection and clinical decision-making.

Technology: Python, scikit-learn, Selenium, BeautifulSoup,...

## EDUCATION

### Bachelor of Engineering in Computer Science

2021 - 2025

Nam Can Tho University

GPA: 3.5/4

## ADDITIONAL INFORMATION

- Technical Skills:**
  - Programming Languages:** Python, PHP
  - Frameworks & Tools:** FastAPI, LangChain, Docker, Git, Laravel, CodeIgniter
  - AI & NLP:** LangChain, LLM, PhoBERT, scikit-learn, RAG, EasyOCR
  - Automation & Scraping:** Selenium, BeautifulSoup, pydub
  - Database & API:** MySQL, RESTful APIs
- Certifications:**
  - BIG-O GREEN: Elementary Algorithms
- Activities:**
  - Overcoming the qualifying round of the **Startup Wheels 2025**
  - The paper on the project at **ADHIGHTECH** was published at the conference '**The Role of Communication and Education in the Digital Era**' 2025