

# Nguyen Viet Hoang Nam

## AI Engineer Intern

📍 Ho Chi Minh City 📞 0328659200 ✉ [nvhnam01@gmail.com](mailto:nvhnam01@gmail.com) 🔗 [linkedin.com/nvhnam01](https://www.linkedin.com/in/nvhnam01) 🐙 [github.com/nvhnam](https://github.com/nvhnam)

### Skills

**Programming Languages:** Python, Java, JavaScript

**Frameworks/Libraries:** PyTorch, OpenCV, NumPy, Pandas, NodeJS, ExpressJS, Streamlit, LangChain, CrewAI

**Tools:** Git, Docker, Langflow, MySQL, Selenium, Roboflow, Kaggle Notebook, Google Colab, Hugging Face

**Core Competencies:** Teamwork, Communication, Problem Solving, Analytical Thinking, Data Processing, Automation Scripting, AI Agent, Computer Vision, Object Detection, Jupyter Notebook, Developer Tools

### Education

**International University - VNU HCMC**

*Bachelor of Engineering in Information Technology*

Graduating May 2025

### Experience

**Yusen Logistics Co., Ltd.**

*IT Support Intern*

July 2023 – October 2023

*Ho Chi Minh City, Vietnam*

- Diagnosed and resolved technical issues across office workstations, contributing to smooth operational workflow.
- Wrote documentation for troubleshooting processes and software installations, improving support efficiency and technical communication.
- Conducted annual audits of IT systems, logging operational status, identifying outdated or faulty assets, and preparing detailed reports to guide maintenance and upgrade planning.

### Projects

**FoodDetector** | *Streamlit, Python, OpenCV, Roboflow*

[Github](#) | [Live](#)

- Automated Google image **scraping** for dataset collection using **Selenium**.
- Created **VietFood67**, a 176K-image **augmented** dataset with **labeled** bounding boxes.
- Fine-tuned YOLOv10 on VietFood67 (**mAP50: 0.92**), deployed on Roboflow Universe cloud.
- Built a real-time food detection site in **Streamlit** (1.2s/frame on CPU-based server).

**NutriGuide** | *ReactJS, ExpressJS, MySQL, LangChain, Python*

[Github](#) | [Live](#)

- Performed data processing (**ETL**) on a 356k-row, 1.01 GB grocery **CSV** dataset before MySQL integration.
- Implemented **RESTful APIs** for **OAuth2** authentication, product browsing, and cart operations.
- Integrated **Gemini API** via LangChain for personalized recommendations.
- Developed a **responsive UI** using **ReactJS + Tailwind CSS**.

**MySQL AI Agent** | *Python, Langchain, MySQL, Streamlit*

[Github](#) | [Live](#)

- Built an AI agent using **Gemini + LangChain** to query MySQL via natural language.
- Developed tools for schema parsing, memory-aware, SQL generation, and dynamic visualizations (bar, line, pie).
- Deployed a real-time **Streamlit** chat UI for seamless data exploration and human-readable insights.

### Certifications

**IELTS** - Overall score: **7.5** | [Link](#)

November 2024 - November 2026

### Awards

**Best Paper Runner-Up Award**

December 2024

*The 13th International Symposium on Information and Communication Technology (SOICT 2024)*

[Link](#)

The paper, 'Now I Know What I Am Eating,' received the Best Paper Runner-Up Award at the SOICT 2024, selected from 229 submitted papers.

## Publications

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- Nguyen, V. H. N.,** Tran, B. T., That, M. V. T., & Vi, C. T. (2025). Now I Know What I Am Eating: Real-Time Tracking and Nutritional Insights Using VietFood67 to Enhance User Experience. In *Information and Communication Technology – Proceedings of the 13th International Symposium on Information and Communication Technology (SOICT 2024)*, Communications in Computer and Information Science, vol. 2352, Springer, Singapore. DOI
- Nguyen, V. H. N.,** & Vi, C. T. (2025). It's Yummy: Real-Time Detection and Recognition of Vietnamese Dishes. In A. Bijalwan (Ed.), *Navigating Computing Challenges for a Sustainable World* (pp. 1–16). IGI Global Scientific Publishing. DOI
- Nguyen, V. H. N.,** Tran, B. T., Nguyen, S. H., & Vi, C. T. (2024). Navigating Nutrition: Online Grocery Solutions with Traffic Light Labels and AI Support in Vietnam. In *International University Annual Scientific Conference 2024*. | [Link](#)