

# Nguyen Thanh Hung

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## PROFILE

I am a third-year Computer Science student specializing in Multimedia Image Retrieval, with a strong focus on enhancing semantic understanding for end-users. My goal is to become an AI Engineer, developing advanced AI-Agent systems that leverage self-supervised learning and reinforcement learning to achieve robust Software-AI systems.

## EDUCATION

**Bachelor of Science in Computer Science**

*GPA: 3.47/4.0, Top 1.5% of class*

International University-VNU, HCMC

*2022-2026*

## TECHNICAL SKILLS

**Tools:** Docker, Git, Airflow, Github Actions

**Programming Languages:** Python, Typescript

**Frameworks & Libraries:** FastAPI, NextJS, Pytorch, Numpy, Pandas, Tensorflow, Selenium, Terraform

**Databases & Cloud Service:** PineconeDB, Faiss, Qdrant, MongoDB, GCP, Elastic Search, PostgreSQL, Neo4j

**Languages:** English (B2), German (A1)

## PROJECTS

### VNQuantify

February 2025 - March 2025

*Data Engineer*

- Successfully built stream processing ETL data pipeline using **Kafka**, **PySpark**, and **Elasticsearch** for analyzing vietnam quant data.
- Set up basic data storage and processing infrastructure on **Google Cloud Platform (GCP)** using **Terraform**.
- Developed end-to-end CI/CD workflows with **Docker** for seamless deployment and reproducibility
- Visualized quantitative data using Kibana, enabling real-time insights and analytics.

### CineStream

October 2024 - November 2024

*Back-end Developer*

- Engineered web scraping solution using **Selenium** to extract comprehensive movie data from TMDB & O Phim.  
Link to website: **cinestream.onrender.com**
- Implemented robust data ingestion pipeline into **MongoDB Atlas** using Axios
- Developed end-to-end CI/CD workflows with Docker for seamless deployment and reproducibility

### Sketchy

February 2025 - Ongoing

*AI Engineer*

- Developed advanced sketch-to-image retrieval system leveraging **Stability AI's** generative models
- Implemented secure authentication architecture using **Clerk** with multi-factor authentication
- Developed end-to-end CI/CD workflows with **Docker** for seamless deployment and reproducibility
- Developed **AI agents** to recommend input prompts and sketched images for an enhanced user experience.

## LEADERSHIP

### Google Developer Students Club

International University-VNU, HCMC

*BackEnd Specialist*

*2023-2024*

- Led a technical workshop on Node.js and Express.js, mentoring 20+ students on best practices in backend development.

### Big Data Club

University of Technology-VNU, HCMC

*AI Specialist*

*2024-Current*

- Has three months of experience in Responsible AI, focusing on SHAP (SHapley Additive exPlanations) to enhance model interpretability and feature attribution for improving High-Performance Computing (HPC) systems.

## REFERENCES

**Le Thi Ngoc Hanh**

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PhD, International University-VNU, HCMC