NGUYEN SI HUY

DoB: 18/11/2003

Gender: Male

Contact

Phone: 0564081332

Email: ngsihuy442@gmail.com

Address: Kien Quoc, Kien Thuy, Hai Phong

Skills

- Python, C++, C#, PHP
- HTML, CSS, Bootstrap
- .NET Core, Blazor
- Entity Framework Core
- SQL Server, MySQL

Education

Vietnam Maritime University

Major: Information Technology

GPA: 3.6 (2021 – Present)

4th Year Student

Github

github.com/ngsihuy442

Certifications

- TOEIC 560 – 2023
- Microsoft Specialist – 2024

Summary

A dedicated and adaptable developer with practical experience in IoT, web development, and software engineering. Eager to grow within a professional environment that values innovation and continuous learning. I aim to contribute meaningfully to impactful projects while expanding my technical and problem-solving skills.

Projects

- **VMU University Website** (Oct – Dec 2024):
  A responsive university website developed for the IT Faculty of Vietnam Maritime University (VMU). The system is built using HTML, CSS (Bootstrap) and PHP, connected to a MySQL/MariaDB database. It includes key features such as user login, dynamic content management (news, events, training programs), and admin-side content editing. This project demonstrates database integration and interactive UI development for educational institutions.

- **Vietnam ID Number Extraction** (Mar – Apr 2024):
  Built a system to extract Vietnam national ID numbers (CCCD) from images or live camera input using Python, OpenCV, and Tesseract OCR. Integrated a custom AI model to detect the card region before text extraction. Supported real-time detection, image preprocessing, and number filtering logic for higher accuracy. Designed for smart ID verification scenarios.

- **DES Encryption Modes** (Oct – Dec 2024):
  Developed a custom Python program to encrypt and decrypt data using the DES algorithm, supporting multiple block cipher modes including ECB, CBC, CFB, and OFB. Implemented bit-level operations, padding mechanisms, and a simple test interface to

demonstrate how each mode affects encryption output and security behavior.

- **Face Recognition System** (Oct 2024):
  Developed a real-time face detection system using YOLO and OpenCV in Python. The model accurately detects and localizes human faces in both static images and live camera input. The project demonstrates object detection principles and practical application of pre-trained deep learning models for vision tasks.

- **AI Conveyor Sorting System** (Apr – Jun 2025):
  Developed an adaptive conveyor system that classifies objects by shape and size using a camera and a custom AI model (YOLO). The system processes real-time video to detect product type (e.g. square, circle, triangle) and triggers actuators to sort accordingly. Built with a focus on embedded AI integration, object detection, and smart automation principles.

Prizes

- Academic Encouragement Scholarship – Vietnam Maritime University - Awarded for outstanding academic performance in 2022, 2023, and 2024.
- "OutStanding Student" about Learning field (2022-2023) – Vietnam Maritime University.
- Graduated top of the class in the Information Technology program (2021–2024) – Vietnam Maritime University.

Experience

- **AI Model Development Intern** – Vinaweb Co., Ltd (Apr – Jun 2025)
  Designed and trained a YOLO-based object detection model to classify items on an adaptive conveyor system by shape and size. Collected and labeled a custom dataset, tuned model performance, and evaluated accuracy with real-time video input. Contributed to integrating the model into an IoT-based monitoring system.