NGUYEN SI HUY

DoB: 18/11/2003
Gender: Male

Contact

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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

Interests

- Mobile game development
- Playing video games
- Shuttlecock kicking

Github

github.com/ngsihuy442

Certifications

- TOEIC 560 – 2023
- Microsoft Specialist – 2024

Summary

A dedicated and adaptable developer with 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

- **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):
  Created a Python program to encrypt/decrypt data using DES with support for ECB, CBC, CFB, and OFB modes, including bit-level operations and a test interface.

- **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.

- **Face Recognition System** (Oct 2024):
  Built a real-time face detection system in Python using YOLO and OpenCV, detecting faces from both images, videos and live camera input.

- **VMU University Website** (Oct – Dec 2024):
  A responsive university website for VMU's IT Faculty, built with HTML, CSS (Bootstrap), PHP, and MySQL. Includes user login, content management, and admin editing features.

Honors & Awards

- 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.