

NGUYEN TRONG VIET

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EDUCATION

HUS High School for Gifted Students

July 2021 - May 2024

Major in Mathematics

- GPA 9.9 (12th Grade) - Top 1% of School
- IELTS: 7.5 overall
- SAT 1510 (Math: 790 - Reading and Writing: 720)

AWARDS & ACHIEVEMENTS

Silver Prize of the Team's Excellent Project and Completed with High Distinction in the AI Programming for Beginners Course

May - July 2024

- Ranked 3rd out of 18 teams by working on 3 problems:
 - House price prediction
 - Classify images of wearing masks, wearing masks incorrectly, not wearing masks
 - Text Sentiment Analysis
- Code are pushed to Github: [AI4B-Project](#)

Silver Medal in Vietnam National Round of International Olympiad in Artificial Intelligence (IOAI)

May - July 2024

- In top 5% of participated teams by working on 3 problems:
 - Pill images Classification using YOLOv8 with data augmentation techniques (nearly 90% accuracy)
 - PM2.5 dust index Prediction using XGBoost library (Scored 15.56 on MDAPE metric)
 - Biomedical Text Summarization using TF-IDF score (Scored 0.287 based on Rouge and BertScore)
- Solutions and Presentation are pushed to Github: [IOAIVN-Hmmge](#)

Ranked 5/514 Students in the 2nd Semester Midterm Test - School Year 2023-2024

March 2024

- Achieved 58/60 in 6 subjects: Math, Physics, Chemistry, Biology, English, and Literature

3rd Prize in VNU Olympiad in Informatics for High School Students

April 2023

- A Competitive Programming Competition, organized to select the school's Informatics team to compete in Vietnam Olympiad in Informatics

Ranked 7/503 Students in the 2nd Semester Midterm Test - School Year 2022-2023

March 2023

- Achieved 48/50 in 5 subjects: Math, Physics, Chemistry, English, and Literature

Silver Medal in Cohost AI Hackathon

July 2022

- Competition in Computer Vision, organized by HUS High School for Gifted Students in conjunction with Cohost AI Vietnam
- Led the team of 4 people to build an AI model to classify whether a person in the image punched the ball or not, which achieved 75.9% accuracy on the first round and 62.75% accuracy in the final round

Participated in Informatics at the HSGS Olympiad

May 2022

- Competitive Programming Competition, organized by HUS High School for Gifted Students and opened to all students in high schools for gifted students in Vietnam

PROJECTS

Event Retrieval from Videos

July 2024 - Current

- Developing a platform that enables users to search for events in a video database using text and image queries
- Using TransNetV2 for keyframes detection, CLIP for features extraction, and FAISS for vector database
- Solutions will be submitted to the AIHCM Challenge

Motorbike Theft Detection

July 2024 - Current

- Developing an AI model for shops that detect theft based on personal ID and behavior
- Using YOLOv8 for object detection and ResNet for person re-identification

Completed 2023 Exchange Programme on Web Design (Digital School)

March - August 2023

Role: Data Team Leader

- Led the Data team in designing the comprehensive model for the school, showcasing the school's 3D model and achievements
- Presented the project during an international web design exchange with Software Gyeongbuk High School, Korea

Project Links:

- Product: [Digital School](#)
- Exchange programme article: [Vietnam-Korea Exchange](#)

ACTIVITIES

Informatics Instructor at Sao Khue Club

July 2024

- Acted as the main teacher in a coding course for 10th grade students in Hanoi, focusing on C++ language and basic algorithms

Host HSGS Hackathon 2024

April - May 2024

- Annual competition for Informatics team students in HUS High School for Gifted Students
- Provided training on the fundamentals of Artificial Intelligence for over 50 students
- Gave problem statements, datasets, and evaluation metrics for contests of Handwritten Digit Recognition and Calculating Handwritten Math Expressions

Host HSGS Hackathon 2023

April - July 2023

- Annual competition for Informatics team students in HUS High School for Gifted Students
- Provided training on designing 3D graphics using Blender for over 50 students
- Hosted a contest about 3D models and Unity for interaction with models, giving problems and evaluating models

Member of Busy Bee Friends Volunteer Group

August 2022

- Contributed to the construction of Sang Ma Sao Primary and Secondary School in Lao Cai, Vietnam by raising funds from teaching Informatics

Supporter of HSGS Code Camp 2022

May - July 2022

- Provided free programming skills training to Vietnamese students, focusing on C++ language
- Assisted over 100 students in coding by supporting them throughout the course