

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) — GPA 9.6 (11th Grade) — GPA 9.7 (10th 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

Contest's field: Artificial Intelligence

- 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

Contest's field: Artificial Intelligence

- 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

Contest's field: Competitive Programming

- Competition was 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

Contest's field: 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

Contest's field: Competitive Programming

- 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 scene detection, CLIP for embedding generation, and FAISS for efficient search
- 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
- 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
- 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