

MANH DUNG TRUONG

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Website <https://portfolio-5cdr.vercel.app/>

1. EDUCATION

HUS High School for Gifted Students

GPA: 10th Grade 9.5/10 11th Grade 9.6/10

2022-2024

Luong The Vinh Middle School

GPA: 9th Grade 8.4/10

2018-2022

2. TEST SCORES

- **SAT:** 1400 (Verbal: 600 | Math: 800)
 - **IELTS:** 7.0 (Reading: 7.5 | Listening: 8 | Speaking & Writing: 6.5)
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3. HONORS AND AWARDS

- **Gold Medal**, International AI Innovation and Research Competition, AI JAM US 2024, Project: "AIoT Air Quality Monitoring" | April 2024
 - **Gold Medal**, 48th International Invention Show INOVA in Croatia | October 2024
 - **Special Prize**, Mathematics at Exploration Creativity Contest, Vietnam National University | 2024
 - **Silver Medal**, Iran Geometry Competition (Intermediate Level) | November 2021
 - **Gold Medal**, Mathematics at HSGS Olympiad | May 2023
 - **First Prize**, Cau Giay District Mathematics Competition | March 2022
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4. PUBLICATIONS

Co-Writer, *"Exploration and Creativity 2023"* | August 2023

- **Co-authored** Chapter 7: "Extension of a Geometric Problem in USAMO 2023"

Published Article, *International Journal of Advanced Research in Computer Science (IJARCS)*:

- **Title:** "A Classification Method for Insects using Data Augmentation and Deep Neural Networks"
Volume 15, Issue 2, March – April 2024. <https://doi.org/10.26483/ijarcs.v15i2.7070>
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5. LEADERSHIP

Leader, *Mathematical Research Team* | April 2023 – August 2023

- Led the Exploration Creativity Contest in Mathematics 2023 (Topic: Extension of a Geometric Problem in USAMO 2023)

- Supervised a team of 6 researchers, delegated tasks, managed the process, and collaborated with the supervisor, editor, and publisher

Leader, *Mathematical Research Team* | January 2024 – May 2024

- Led the Exploration Creativity Contest in Mathematics 2024 (Topic: Introduction of Combinatorial Problems).
- Supervised a team of 5 researchers, managed the process, and provided guidance.

Participant, *Global Leadership Link (GLL), Singapore* | July 2024

- Developed an efficient AI-driven platform for disease detection using X-ray image analysis.
- Improved diagnostic accuracy, speed, and accessibility.

Founder, *Charity Run Project* | April 2024 – June 2024

- Organized a fundraising run, about 40 members, raising 20 million of VND to support 12 patients of Thalassemia at the National Institute of Hematology and Blood Transfusion (NIHBT)

6. PERSONAL PROJECTS

Developer, *Robot for Supporting Tuberculosis Patients* | 2023 – Present

- **Transporting Essential Items and Medicine:** Implemented autonomous navigation using Raspberry Pi and motor drivers.
- **Automatic Disinfection:** Equipped the robot with a disinfection system capable of sanitizing rooms and air spaces.
- **Remote Monitoring:** Integrated sensors and live video streaming for patient monitoring via a mobile app.
- **Air Quality Monitoring:** Monitored dust levels, temperature, and humidity using sensors (ESP32 module).

7. EXPERIENCE

Intern, *Mitalab Group (Vietnam's Leading Medical Equipment Company)* | Summer 2023

- **Learned** about the installation and operation of chemistry equipment.
- **Gained experience** with circuit boards and electronic components.
- **Assisted** technicians in equipment setup and troubleshooting.

8. OTHER ACTIVITIES

Charity *SOS Children's village Hanoi* | September 2024

- **Assisting** the SOS Children's village Hanoi as a sponsor.
- **Organizing** activities for kids at the village on the Moon Festival 2024

Charity *Social Support Center II Hanoi (War Invalids and Social Affairs)* | October 2024

- **Donated** necessities to 180 elderly individuals and people with disabilities, provided scholarships to 20 underprivileged secondary school students

Habit *running daily and participating in Marathon races* | May 2023 - Now