

## TRAN HOANG THY THY

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Location: Ho Chi Minh City, Vietnam

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## Education

**Nguyễn Thượng Hiền High School**, Ho Chi Minh City, Vietnam

2022 – Present

**GPA:** Grade 10: 8.9/10 | Grade 11: 9.2/10

**Hoàng Hoa Thám Junior High School**, Ho Chi Minh City, Vietnam

2018 – 2022

**Standardized Test Scores:** SAT: 1460 | IELTS: 7.5

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## Honors and Awards

- Gold Medal, AI JAM 2024**, United States
    - Project:** "AloT Air Quality Monitoring": Developed an AI and IoT-based system for real-time air quality monitoring and analysis, contributing to environmental health and safety.
  - Gold Medal, 48th International Invention Show INOVA 2024**, Croatia
    - Project:** "SafeSite AI: Application of Artificial Intelligence in Ensuring Site Safety": Applied AI technology to enhance safety protocols on construction sites through intelligent monitoring and predictive analysis.
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## Research Experience & Personal Projects

**Developer**, *Autonomous Insect Monitoring System Using Deep Learning*

August 2024 – October 2024

- Developed a system for insect classification using deep learning and computer vision.
- Implemented YOLOv5 and YOLOv9 models, improving classification accuracy by **20%**.
- Built a web platform to display real-time monitoring results.

**Researcher**, *Recognition of Faces in Images Using MT-CNN and Facenet Networks*

May 2024 – July 2024

- Explored face recognition methods using MT-CNN and Facenet models under complex conditions.
- Utilized diverse image datasets to test and validate models.

**Co-Author**, *"Improvements of the Classification of Flowers Using Deep Neural Networks with Various Solver Optimization Algorithms"* - IEEE XPlore Journal - to be published in 2025.

Jan. 2024 – Sep. 2024

- Aimed to improve accuracy in flower classification using different solver optimization algorithms.
  - Enhanced precision by comparing various optimization solvers within the neural network model.
  - Achieved a **20% increase** in classification accuracy.
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## Leadership Experience

### **Vice-president, Stock Survivor Investment Club**

*January 2023 – Present*

- Founded a community for aspiring young investors to learn about finance and the stock market.
- Hosted an online webinar on stock investment and fund management with over **100 attendees**.
- Developed workshops: “Should We Invest at the Age of 16?” & “Should We Do Business While in High School?”, which engaged over **30 students**.

### **Vice President, Happy Meal Charity Project**

*June 2023 – Present*

- Promoted healthier lifestyles and cultural values of ethnic minorities through communal meals.
- Led collaborations, sponsorships, and weekly planning for **21 members**.
- Organized a charity event, preparing **300 meals** for children at Giuse Shelter and Plong village.

### **Organizer, Hues of Spring**

*January 2024 – February 2024*

- Led a team of **27 members** to create a Lunar New Year festival for underprivileged students.
  - Raised over **34,000,000 VND** by selling **160 New Year gift boxes**.
  - Donated **20 gift packages** to underprivileged families and awarded **30 scholarships** to students.
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## Internship Experience

### **Data Analyst Intern, VACOFARM**

*June 2023 – August 2023*

- Created charts, dashboards, and reports to present data insights.
  - Used Excel and Python for data analysis and visualizations.
  - Assisted team members in data processing and report generation.
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## Volunteer Experience

### **Organizer & Volunteer, Gia Lai Field Trip**

*July 2024*

- Carried out the "Bringing Cinema to the Highlands" activity for disadvantaged children.
- Donated essential items and school supplies to Giuse Shelter, home to over **110 orphaned children**.

### **Volunteer Tutor, Trái Tim Yêu Thương**

*February 2023 – May 2024*

- Provided weekly tutoring for a 6th-grade student in Math, Chemistry, and Physics.
- Customized teaching strategies to improve each student's understanding and problem-solving skills.

### **Member, Rotaract Club of One Million Lives Saigon**

*June 2023 – June 2024*

- Assisted in distributing food and water to underprivileged communities.
  - Collaborated on fundraising activities for charitable causes.
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## Skills

- **Programming:** Python (including deep learning frameworks)
  - **Data Analysis:** Excel, Python
  - **Soft Skills:** Leadership, Team Management, Event Planning, Communication
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