

TRA BUI

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EDUCATION

Carnegie Mellon University | Class of 2025

- **Bachelor of Science in Computer Science**
- **Relevant coursework:** Fundamentals of Programming and Computer Science | Differential and Integral Calculus | Concepts of Mathematics | Interpretation and Argument

Hanoi – Amsterdam High School for the Gifted, Hanoi, Vietnam | Class of 2021

- **Honors in English**

PROJECTS

Python Encoding and Decoding, Doha, Qatar | Fall 2021

- Executed 200+ lines of code, 900 ns execution time, and applicable for numbers up to 999,999,999
- Encoded the sign, digit count of a number and itself into one integer
- Decoded an integer back to the original number

Students’ Attitudes Towards Learning Vietnamese History, Hanoi, Vietnam | Fall 2019

- Generated and revised survey questions and conducted interviews with 80 students in Hanoi
- Processed data using Excel and SPSS to understand middle-school students’ perceptions toward learning history, factors that affect their interests, and their needs regarding the changes in the history curriculum

WORK EXPERIENCE

English & Vietnamese Languages Tutor, Hanoi, Vietnam

August 2018 – February 2021

- Taught English writing and edit English essays for 30 middle schoolers, helping them increase their final exam grades by 6-13%
- Assisted students with finding suitable study techniques to increase knowledge retention
- Taught basic Vietnamese used in daily conversations to a group of five Japanese students

LEADERSHIP

Co-founder & President | House without Doors Project, Hanoi, Vietnam | Fall 2019 - Present

November

2019 – Present

Community project that aims to create a platform for middle-school students to learn Vietnamese history in a more engaging context

- Conduct interviews with 80 middle-school students in Hanoi to understand their perceptions of learning history
- Lead a team of 10 to execute 2 social media PR campaigns, reaching 9.6K people and resulting in 2K likes and shares
- Organize 1-2 workshops about different historical eras every 2 months
- Appeared on a national broadcast channel to introduce the mission and values of the project and highlight the most influential workshops

English Performance, Hanoi - Amsterdam High School, Hanoi, Vietnam

November 2018 – October 2020

An English-language musical program performed by students specializing in English at Hanoi – Amsterdam High School

Sound Director & Translator

June 2019 – October 2020

- Prepared mic script and logistics for a total of 25 actors and actresses in “*Reverie the Musical*”
- Rehearsed 10+ hours a day intensively for 3 days
- Translated script, fanpage posts, and project profile from Vietnamese to English (about 3,000 words)
- Wrote the script and convert slides to make the subtitle screen

Performer

November 2018 – May 2019

- Spent 20+ hours per week in the spring semester rehearsing and making props for “*Facade the Musical*”
- Supervised setting the stage and coordinating actors with the light and sound system
- Rehearsed with 60 co-actors for 40 hours before the grand performance in front of an audience of 700

EXTRACURRICULAR

Content Specialist | Japanese Culture Club, Hanoi – Amsterdam High School, Hanoi, Vietnam

September 2018 – February 2020

Club promoting Japanese culture to 2500 students and faculty

- Collaborated with 40 team members to set up the games and layout of the cultural booths at the club’s biggest annual event which attracted 1,500 participants
- Translated the sponsor documents from Vietnamese to English, gathering \$2,500 in funding

Member | Philosophy Hanoi Ams, Hanoi – Amsterdam High School, Hanoi, Vietnam

October 2018 – August 2020

Philosophy club that fosters discussion in various areas of philosophy

- Attended 2-hour weekly meetings to discuss 2 philosophical topics with 10 fellow members
- Facilitated discussions on morality and ethics; evaluated the multifacetedness of human behaviors based on their causes and consequences; differentiated between legal and moral codes

HONORS AND AWARDS

First Place (Gold Medal in Social Sciences) - Owlypia Intellectuals Challenge

2020

Top 24 - Caribou Mathematics Competition 2020 (against 420 others)

2020

Second Place – International Youth Math Challenge (against 2000+ others)

2019

Finalist – Southeast Asian Youth Leadership Program (SEAYLP) (against 500 others)

2019

Honorable Mention in English – City-wide Merit Competition (against 300 others)

2018

First Prize - District-wide English Competition

2018

SKILLS

- Technical: Python, Microsoft Word, Excel, PowerPoint, HTML
- Languages: Vietnamese (Native), English (Fluent), Japanese (Conversational)