

# THANH HO PHUONG

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## EDUCATION

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VNU-HCM High School for the Gifted | Ho Chi Minh City, Vietnam

Expected Graduation: May 2024

English Gifted Class

GPA 10, 11: 9.3/10

SAT: 1500 | DET: 130

AP: Calculus BC 5/5, Computer Science A 5/5

## RESEARCH EXPERIENCE

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### MACHINE LEARNING IN QUANTIFYING CORONARY BLOOD FLOW

Research Assistant, Presenter

January 2023 – Present

- Labeling image: approx. 3000 images of the catheter guide and 250 images of the right coronary artery
- Applying the binary image classification model and U-net with DenseNet121 for the segmentation mode
- ACC Asian 2023, Philippines, Sept. 28-29, 2023: Poster Presenter ([Research Poster](#), [Research Abstract](#))
- ACC 2024 Atlanta, Georgia, USA, April 2024: Abstract-pending ([Research Abstract](#))

### HCMUT Electrics and Electrical Engineering Summer Camp

Product Development

May – August 2023

- Conducted a comprehensive survey and analytical assessments of the library's operational environment
- Developed a Library Sound Warning system utilizing ESP-WROOM-32, IC595, MKE-S06, and DS3231
- Presented the developed product to the Head of the Electrics and Electrical Engineering department

## EXTRACURRICULAR

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### VNU-High School for the Gifted Library Student Collaborators – Community Organization: Contributing to the maintenance and coordination of library facilities and the execution of school-hosted events.

Information Technology Specialist

September 2021 – Present

- Deliver services to +200 students daily, ranging from book checkouts to research reference
- Maintain a database of 3700+ books, conducting regular checks to identify and resolve potential issues
- Collaborate with school officials to facilitate +10 workshops, talk shows, and events every year
- Raise more than 5 million VND and execute trips to visit underprivileged children on a regular basis

### TEDx PTNK YOUTH – Non-profit media organization: Delivers speeches and “ideas worth spreading”

Technical Specialist & Video Editor Team Leader

March – July 2023

- Edited 12+ videos—including speeches and sponsor ads—using Lightworks and Adobe After Effects
- Oversaw the screening, recording process, and presentation performance of 7 speakers at the backstage
- Contributed to [Crystal Unclear @TEDx PTNK Youth Video playlist](#), reaching out to +2,500 online audience

### The KORI Project - Cultural project: Actively fostering the appreciation and promotion of Korean culture to an audience exceeding 10,000 followers online

Event Planning and Coordination

August 2021 – May 2022

- Executed 'The KORI's Orientation Day' and 'Hallyu Talkshow', attracting 100+ active participants
- Implemented digital campaigns and strategic seeding techniques, gaining 40% growth in followers
- Spearheaded the visual preparation and strategic planning of the Event Department's initiatives

## SKILLS

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### Editing

2-year experience in Adobe Premiere, Lightworks

2-month experience in Adobe After Effects

### Programming

Technology: HTML, CSS, Javascript | C++, Java | SQL

Tool: React | NEXT.JS | Chakra UI | Keras