

GIA HUY THAI

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EDUCATION

VNUHCM - University of Science <i>Bachelor of Science, Honor Program in Faculty of Information Technology</i>	Sep 2023 - present CGPA: 3.83/4.0
Hoang Le Kha Highschool for the Gifted, Tay Ninh <i>Specialized in Mathematics</i>	Sep 2020 - May 2023 GPA (Grade 12): 9.5/10.0

PROJECTS

Multi-Dataset Image Classification  <i>AI Viet Nam Capstone Project</i>	Jan 2025
• Developed an interactive Streamlit-based web application for classifying images from MNIST and Cassava Leaf Disease datasets using the LeNet architecture.	
• Customized two LeNet variations: one for grayscale (MNIST) and another for RGB (Cassava), with real-time predictions and confidence scores.	
• Tech Stack: Python, PyTorch, Streamlit.	
Simple Proxy Server  <i>HCMUS Computer Networking Project</i>	Dec 2024
• Developed a Windows-based proxy server with a GUI, supporting HTTP/HTTPS requests, logging, and blacklist management. Implemented request handling using Winsock and user interactions with WinAPI.	
• Deployed the server with configurable port settings and features like real-time client/hostname monitoring and detailed logging in text files.	
• Tech Stack: C++, Winsock, WinAPI.	
Image Depth Estimation  <i>AI Viet Nam Capstone Project</i>	Aug 2024
• Developed a depth estimation system generating disparity maps from stereo images using pixel-wise and window-based matching with \mathcal{L}_1 , \mathcal{L}_2 , and Cosine Similarity metrics.	
• Evaluated the system on real-world datasets, producing grayscale and colorized visual outputs.	
• Tech Stack: Python, OpenCV, NumPy.	
Image Segmentation using KMeans  <i>Personal Project</i>	Jul 2024
• Developed an interactive web application for image segmentation using the KMeans clustering algorithm, deployed on Streamlit.	
• Enabled users to upload images or input image URLs, adjust cluster parameters, and visualize original and segmented results.	
• Tech Stack: Python, Streamlit, OpenCV, scikit-learn.	
Knight's Tour Visualization  <i>Personal Project</i>	Apr 2024
• Implemented a dynamic visualization of the Knight's Tour problem on an $n \times n$ chessboard using the p5.js library, allowing users to visualize the Knight's movements and algorithmic problem-solving.	
• Integrated backtracking algorithms to find all possible solutions for smaller boards, showcasing the problem's complexity.	
• Techstack: JavaScript, p5.js	

SKILLS

Programming Languages	C/C++ (Advanced), Python (Advanced), R (Basics), JavaScript (Basics)
Frameworks and Libraries	NumPy, Matplotlib, Pandas, OpenCV, Scikit-learn, Pytorch, Streamlit
Mathematical Foundations	Calculus, Linear Algebra, Probability and Statistics, Matrix Calculus
Soft Skills	Problem Solving, Critical Thinking, LaTeX, Adaptability

AWARDS

Mobius Ribbon Challenge First Prize	Apr 2025
Awarded top honors in a faculty-level Mathematics and Computer Science competition	
Faculty of Information Technology, HCMUS Dean's List 2023-2024	Dec 2024
Recognized for outstanding academic performance in the 2023–2024 academic year	
Rencontres du Vietnam Vallet Fellowship 2023	Aug 2023
Prestigious scholarship awarded for academic excellence and research potential	
Vietnam National Olympiad Third Prize on Mathematics	Mar 2023
National recognition for advanced problem-solving in Mathematics (2022–2023)	

EXTRACURRICULAR EXPERIENCES

AIVN Research Group Member	Feb 2025 - present
• Organized technical seminars on Mamba architecture, state-of-the-art Mixture-of-Experts (MoE) approaches, and DeepSeekMoE.	
• Explored potential applications of sparse expert models for enhancing efficiency in medical AI systems.	
AI Viet Nam  Community Member	
• Joined an organization that offers Artificial Intelligence and Data Science courses.	Feb 2024 - Jun 2025
• Participated in career networking and received guidance on pursuing MSc and PhD research.	
AIVN Research Group Member	
• Performed literature reviews and summarized papers on Cardiac MRI Reconstruction.	Jun 2024 - Sep 2024
• Organized introductory seminars on fMRI image processing techniques.	
AngelHack Hackathon  Participant	Jun 2024
• Designed an object detection system to recognize beer brands using Object Detection and Optical Character Recognition (OCR).	
• Built a user-friendly interface with Streamlit, leveraging Python libraries (EasyOCR, OpenCV, Transformers) and the Salesforce BLIP model to generate image captions and provide business insights.	
Vietnam School of Science 2023 Participant	Aug 2023
• Learned fundamental research methodologies through interactive sessions.	
• Collaborated in a team to win first prize in Science-A-Thon Challenge.	
Math and Science Summer Program 2023  Mentee	Jul 2023 - Aug 2023
• Worked with a mentor to learn advanced Mathematical Finance concepts.	
• Applied R programming to solve finance-related problems and analyze data.	
STEM Express Program  Participant	Aug 2022 - Oct 2022
• Designed and developed an educational game for children to learn waste classification.	
• Won first prize in the STEM Project Competition at the end of the program.	