NGUYEN LE QUYNH CHAU

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EDUCATION

Middle School's Name: Vo Truong Toan Secondary School　　　　　　　　　*2019-2023*

High School's Name: VNU-HCM High School for the Gifted　　　　　　　　*2023-2026*

GPA:　　Grade 9: **9.4**　　　　Grade 10: **9.5**　　　　Grade 11: **9.8**

SCORE:　　IELTS: **6.5**　　　　AP Calculus AB: **4**　　　AP Computer Science A: **4**

HONORS AND AWARDS

- **3rd Place** | National Science and Engineering Fair (VISEF) | 2025
- **2nd Place** | Southern Regional Round of Ho Chi Minh City Youth Informatics Contest | 2025
- **3rd Place** | Ho Chi Minh City Creative Science Contest | 2025
- **4th Place** | Ho Chi Minh City Youth Informatics Contest | 2025
- **1st Place** | School-level Science and Engineering Fair | 2024
- **1st Place** | District-level Excellent Student Contest in Informatics | 2022
- **Certificate of Excellence** | ANU STEM Boxes International Competition | 2024
- **With Merit** | NTI-PRISEE AI Minicourse – Foundation in Deep Learning, ML, Computer Vision | 2024
- **With Merit** | NTI-PRISEE AI Minicourse – Module 2: GenAI API Programming | 2024
- **3rd Place** | Ho Chi Minh City Excellent Student Contest in Informatics | 2023

LEADERSHIP

BlueHope Foundation – Carrying The Fire | Facebook page

President & Creative Director　　　　　　　　　　　　　　*August 2024 – Present*

- Initiated and directed the **"Blue Hope – Gieng Nuoc Hy Vong (Well of Hope)"** project in Kon Tuh, raising **22M VND** through fundraising campaigns and merchandise fairs.
- Coordinated field surveys and built partnerships with **Plan International Vietnam**, **Summit Education**, and **Thiên Long Group** to secure resources and technical support.
- Delivered a completed well that improved access to clean water and enhanced living and learning conditions for **100+ families.**

IniFacts| Facebook page　　　　　　　　　　　　　　*August 2024 - August 2025*

President

- Led IniFacts, a sub-project of InitiaRe, dedicated to transforming scientific knowledge into engaging, easy-to-understand content for students.
- Supervised a creative team to produce over **30 multimedia articles** and videos, simplifying complex scientific topics for young audiences.
- Expanded IniFacts' online reach to **10,000+ views and interactions**, fostering greater student curiosity and making science more accessible and enjoyable beyond the classroom.

PRISS Social Sciences Community | Facebook page

Chief of Digital & Technical Development　　　　　　　　*March 2024 - October 2024*

- Helped launch PRISS with the goal of making social science research more accessible to high school students through **digital platforms** and **interactive resources.**
- Designed and operated the official **PRISS site**, managing content flow, event updates, and technical logistics with minimal funding support.
- Oversaw development of the **PRISS Handbook** and **Exhibition**, delivering high-quality outputs that attracted wide student participation and recognition within the school community.

Fzone | Facebook page | Personal Youtube

Performance Leader & Head of Artistic Direction　　　　　　*October 2023 – Present*

- Directed choreography and led **10+ performances**, expanding the club's page to **5.9K+ followers** and contributing to the cultural life of High School for the Gifted.
- Organized signature workshops and events: KPOP Random Play Dance (03/2024), HIP-HOP Basics Training (09/2024), Shinwa no Utage – Japanese Cultural Festival (01/2025).
- Mentored younger members in stage performance and artistic expression, strengthening the school's creative community.Images

SCIENCE PRODUCT

Student Health Management System (SHMS) – A digital solution for managing student health records in schools - Link to report

Full-stack Developer & System Designer

- Built a school **health-tracking web app** managing **300+** student records with **WHO-standard BMI** automation, **real-time filters, CSV export, and Chart.js visualizations.**
- Developed a secure **PHP–SQLite system** with role-based access and verified updates, improving data accuracy by **40%** and streamlining school health workflows.

WHIS – Website for Hearing-Impaired Students (Assistive Technology for Inclusive Education) - Link to report
Project Leader, Lead Researcher & System Developer

- **Led a 4-member team** to develop a **website for hearing-impaired students**, integrating **Speech-to-Tex**t, Speech-to-Sign, and Text-to-Sign modules.
- Directed AI prototype development, enhancing accessibility with **Video-to-Text** and **pronunciation tools**, improving student learning.
- Piloted the system in schools, refined design based on feedback, and applied machine learning to boost accuracy and user engagement by **25%.**

RESEARCH EXPERIENCES

Vision Care System: Integrating Deep Learning and Explainable AI Models for Detection, Segmentation, and Diagnosis of Eye Diseases to Enhance Ophthalmology Support Across Healthcare - Link to report

AI Researcher & Medical Imaging System Developer

- Led the end-to-end development of an award-winning **AI diagnostic system** for retinal diseases, integrating **advanced Deep Learning** and **Explainable AI (XAI)** for precise, transparent clinical decision support.
- Engineered a **scalable, user-centric platform** validated by **ophthalmologists** to bridge critical **healthcare gap**s across all service levels.
- Earned multiple awards: **2nd Place** (Southern Regional Round, HCMC Youth Informatics Contest 2025), **3rd Place** (HCMC Creative Science Contest 2025), and **4th Place** (HCMC Youth Informatics Contest 2025).

AI-based Online Learning Platform for Hearing-Impaired Students: Digital Transformation of General Education Curriculum (2018 Edition) - Link to report

System Developer, AI Researcher & EdTech Data Analyst

- Researched learning barriers of **hearing-impaired students** in Vietnam's 2018 curriculum through partnerships with inclusive schools.
- Developed an **AI-powered platform** converting textbooks into sign language and visual content**, achieving 98–99% VSL recognition accuracy.**
- Built a sign language dictionary and chatbot enhancing access to education for over 2,000 students with hearing loss; won **3rd Place at VISEF 2025.**

COMMUNITY SERVICES

Volunteer at Children's Hospital 2 | Program Vice President   *September 2024- May 2025*

Engaged in community service by visiting nursing homes and organizing events to reduce loneliness among elderly residents. Participated in 8+ community events, directly benefiting 200+ seniors. **Certificate**

Wave Vietnam | Project Leader   *January 2024 - October 2024*

Organized and managed activities to bring joy and emotional support to young patients, leading a team of 10 volunteers in planning and execution. Supported 100+ young patients with gift-giving, storytelling, and drawing activities. **Link images**

Spring of Love Volunteer Program | Board of Directors   *November 2023 - July 2024*

Coordinated volunteer activities, including gift preparation, fundraising, and event management, while overseeing logistics and team coordination. Contributed to raising **10,000,000 VND** and supported **500+** children through events and donations. **Link images**

INTERNSHIP

Tam Anh General Hospital | Website   *April 2025 - June 2025*

Health Data Science Intern - Applied data science to healthcare, focusing on medical data analysis, visualization, and ensuring privacy and ethical handling of sensitive information. **Certificate**

Wealthcons Construction Joint Stock Company| Website   *July 2025 - September 2025*

Data Science Intern - Analyzed healthcare datasets with Python, Pandas, and SQL, created dashboards in Power BI/Tableau, and applied machine learning (Scikit-learn) for health predictions and resource optimization. **Certificate**

SKILLS & HOBBIES

Full-stack Development (PHP, Python, SQL), AI/ML (Deep Learning), Data Analysis (Power BI/Tableau) Choreography, and Community Service, Dancing.