

NGUYEN NGUYEN CHUONG

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EDUCATION

HUS High School for Gifted Students - Vietnam National University, Hanoi **Sep 2023 - Present**

- Specialized Class in Mathematics
- GPA: **9.4/10** (Grade 10), **9.6/10** (Grade 11), **9.8/10** (Semester 1, Grade 12)
- SAT: **1530** | IELTS: **7.5**

HONORS AND AWARDS

First Prize in Informatics – Vietnam National University Olympiad **Dec 2024**

- Competed in an intensive 3-hour individual programming contest. Achieved a score of 13/20 by solving 4 competitive programming problems.
- Ranked 4th overall out of 200+ participating students.

Third Prize (Division C1) – National Youth Informatics Contest **Aug 2025**

- Competed in the national-level knockout contest for Informatics-specialized students. Collaborated in a two-member team during a 5-hour intensive optimization contest, designing algorithms and strategies for head-to-head interactive matches; advanced to the Quarter-finals.

Second Prize in Informatics – VNU Competition for Gifted Students **Sep 2024**

- Competed in a rigorous 4-day programming marathon comprising 20 algorithmic problems. Demonstrated consistent performance across multiple contest sessions.
- Ranked 13th overall out of 70 selected participants.

First Prize - Informatics Specialization category of the 5th Central Highlands Olympiad **Apr 2024**

- Secured rank 15 out of 160+ contestants in the Specialized Division. Scored 180/300 points across 3 competitive programming problems within 3 hours.

Bronze Medal - HSGS Olympiad in Informatics **May 2024**

- Competed against 300+ top students from specialized high schools nationwide in a standard IOI-style format (2 days, 10 hours). Solved 6 advanced algorithmic problems to secure the Bronze Medal.

Third Prize - "Exploration and Creativity Contest in Mathematics 2024" **2024**

- Co-authored in an in-depth research project on "Inequalities in Triangles", investigating advanced geometric proofs and applications.
- Recognized for research quality, which resulted in a book publication by Vietnam National University Press.

First Prize - Tech for Green Challenge 2025 **2025**

- Developed computational models to evaluate green technologies and optimize sustainability performance.

RESEARCH

Research Collaborator - VNU Institute of Vietnamese Studies and Development Science **Mar 2025 - Oct 2025**

- Developed the "Smart Community-Based Tourism Map Model" by integrating spatial information using Geographic Information Systems and database management systems to evaluate tourism resources and existing community models.
- Applied technical expertise in AI, Data Analytics, and Web/App development to transform raw data into actionable insights, promoting sustainable tourism and enhancing the value of Ta Xua's cultural assets

- [Project sample](#)

- Developed an AI-based traffic violation detection system to replace manual monitoring efforts and enhance traffic management efficiency for government agencies
- Specialised in the application of computer vision techniques using YOLOv5 and OCR to identify helmet violations and extract license plate details automatically
- Trained, refined, and evaluated continuously to achieve a final model accuracy of 95.2% and an average mAP@0.5 of 0.843. Designed and maintained a responsive user interface using Tkinter. Set up a full violation report and review workflow utilising an automated email notification module built on Yagmail.

PROJECTS

We2Go AI – Intelligent Travel Planning Platform

Oct 2025 - Feb 2026

- [Project sample](#)

- Built a full-stack, AI-driven web application capable of generating highly personalised, end-to-end itinerary suggestions and travel insights, significantly minimizing manual planning time and efforts
- Leveraged React (Vite) for the frontend, FastAPI for the backend, and Supabase for secure user authentication, efficient data storage, and performant real-time queries
- Engineered an autonomous AI Agent using a Plan-Act-Observe loop powered by Google Gemini to structure complex user requests into concrete travel itineraries and booking workflows.
- Implemented Server-Sent Events (SSE) for real-time response streaming and enforced strict JSON schema constraints on generated output to mitigate hallucinations
- Maintained an average response latency of <1.5s to ensure optimal user experience

EXTRACURRICULAR ACTIVITIES

HSGS Code Camp

2024 - 2025

- Taught C++ fundamentals as the Lead Tutor to middle school beginners. Designed curriculum, conducted lessons, and integrated interactive learning elements such as quizzes to build up computational thinking and break down challenging concepts into intuitive, bite-sized lessons.
- Led overall operations, managed schedules, and coordinated core activities as Event Manager to ensure a smooth learning experience for all participants
- Oversaw the design and quality assurance of midterm and final exams as the Head of Examination Committee, ensuring content effectively evaluates students' ability to design, implement, and debug a complete C++ programme.

Teacher Assistant - CMATH Education Center

Jan 2024 - Dec 2024

- Academic Support: Assisted in delivering advanced Math lessons for secondary students, clarifying complex algebraic and geometric concepts to ensure thorough understanding.
- Assessment & Feedback: Graded weekly practice tests and provided personalized feedback to help students identify their weaknesses and improve their exam-taking strategies.

Busy Bee Friends Volunteer Group

Jun -2024

- Fundraised and supported the construction of Hanh Dich primary and secondary school in Que Phong District, Nghe An Province to provide education opportunities for local children from disadvantaged backgrounds

SPORTS

- Achieved top 1% Worldwide at [Chess.com](#)
- Won second prize in the Men's Doubles section at the 2025 HUS Table Tennis Cup