

PHAM HA KHANH CHI

University Applicant | Computer Science · Mathematics · Artificial Intelligence
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EDUCATION

British Vietnamese International School Hanoi | *Hanoi, Vietnam* | 2018–2027

- A Levels (2025–2027): 4 A* predicted — Mathematics, Further Mathematics, Physics and English Literature.
- IGCSE (2023–2025): 9 A* and 1 A, including Mathematics, Additional Mathematics, English, Vietnamese, English Literature, History, Business and Co-ordinated Science; A in Computer Science.
- IELTS Academic (2026): Overall 8.0 (Listening 9.0).

AWARDS

Academic Scholarship | *BVIS Hanoi* | 2026–2027

Awarded for outstanding academic performance.

Northern Vietnam Young Informatics Competition | *Regional* | 2025

Third Prize.

Central Vietnam and Central Highlands Olympiad — AI Challenge | *Regional* | 2025

Consolation Prize.

UK Mathematics Trust — Senior Mathematical Challenge | 2025

Silver.

UK Mathematics Trust — Intermediate Mathematical Challenge | 2024

Gold.

Cambridge Upper Secondary Science Competition | 2023–2024

Gold, as part of a team project investigating storage temperature and microbial growth in melons.

BVIS Hanoi Academic Attainment Certificates | 2023–2026

Recognised across multiple terms and subjects, including Further Mathematics, Physics, Mathematics, Computer Science, Business Studies and English Literature.

PROFESSIONAL DEVELOPMENT, RESEARCH & PROJECTS

Rethinking Attention Sinks in Qwen3-1.7B | *Independent research* | 2026

- Investigated why some attention heads in a transformer language model assign unusually high attention to the initial token.
- Used grouped-query attention as a natural experiment; findings indicate that the query pathway is a causal contributor to sink behaviour.

Echo Chambers in Recommender Systems | *STEM Club team research* | 2026

- Mentor for a simulation-based study asking whether recommendation algorithms narrow users' content exposure.
- Diagnosed bugs behind misleading early results and helped redesign the simulation to test for a genuine effect; project is applying for the CREST Silver Award.

Storage Temperature and Microbial Growth in Melons | *Team science research* | 2023–2024

- Compared microbial growth across three melon varieties stored at four temperatures.
- Contributed to the project that received Gold in the Cambridge Upper Secondary Science Competition 2023–2024.

Soul Garden | *Independent iOS app project*

- Developed an AI-assisted wellbeing app concept combining an emotional-support chatbot, journalling and a calming virtual garden.

LEADERSHIP ACTIVITIES

Co-founder, STEM Club | *BVIS Hanoi* | 2026–present

- Co-founded an eight-member club that introduces younger students to scientific research through student-led teams and projects.
- Support students through hypothesis formation, experimental design, consideration of limitations, interpretation of results and research writing.

House Captain, Hanoi House | *BVIS Hanoi* | 2025–2026

- Progressed through deputy house leadership roles in Years 9 and 10 before becoming House Captain in Year 12.
- Organised house quizzes and competitions; led Hanoi House to House Point Champion in Primary and second place in Secondary.

EDIB Prefect | *BVIS Hanoi* | 2025–2026

- Helped design a PSHE lesson on equality, diversity, inclusion and belonging using discussion and role-play.
- Planned a student extracurricular activity around emotional awareness and regulation, consulting the school counsellor.

NEXUS — High School Innovation Challenge | *Organising team, Academic Department* | 2026

- Designed a sponsorship profile, pitched to Code Dream and secured the organisation as the competition's academic sponsor.

PROGRAMMES & ADDITIONAL LEARNING

CS50's Introduction to Artificial Intelligence with Python | *Harvard University* | 2026

Completed the course, including all twelve projects.

AI Programming for Beginners | *ICT for People Institute · 1001 School* | Jul 2025

High Distinction.

Introduction to AI | *ICT for People Institute · 1001 School* | Sep–Nov 2024

High Distinction.

Duke of Edinburgh's International Award | 2025

Silver Award, achieved December 2025.

SKILLS & INTERESTS

Technical | *Python · Java*

Languages | *Vietnamese (native) · English (IELTS 8.0) · Chinese (HSK 4, 270/300)*

Other | *Taekwondo (Red Belt, 1st Geup; 2023–2026) · Guitar · School musical theatre (2022–2024)*