

Harrison He

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EDUCATION

University of Illinois Urbana-Champaign — B.S. in Mathematics, expected 2030

- Considering a switch to Computer Science + Mathematics.

St John's College, Johannesburg — Cambridge A-Level Programme (Cambridge Honors)

- A* Mathematics, A* Further Mathematics, A Chinese, A Physics, B Chemistry.

Crawford College Sandton — Grades 8–11 (IEB curriculum), before transferring for A-Levels.

EXPERIENCE

Actuarial Job Shadow — Discovery (April 2024)

- Observed practising actuaries at one of South Africa's largest financial services groups: risk assessment, pricing models, and day-to-day actuarial work.

Actuarial Job Shadow — Argen Actuarial Solutions (May 2024)

- Observed actuarial valuations, financial modelling, and client advisory services at a specialist consultancy.

Community Service — 100+ hours tutoring high school mathematics and maths olympiad preparation.

PROJECTS

- **Personal website** (harrisonhe.com) — designed and built from scratch with HTML/CSS/JavaScript, including an integrated AI chat assistant.
- **Cambridge Research Project** — cryptocurrency and regression techniques.

ACHIEVEMENTS

- South African Maths Olympiad (SAMO): 4th (2021), 7th (2022), Top 50 (2023), Top 20 (2024 & 2025) nationally.
- University of the Witwatersrand Maths Competition: Top 10, 2023–2025 (continental level).
- South Africa Team Maths Competition: 2nd place 2021–2024; 4th in 2025.
- Estonian Maths Open: Top 20–50 within South Africa.
- South Africa IMO selection training camp, Stellenbosch University, 2021–2024.
- South Africa Informatics Olympiad: passed first round, 2023 & 2024; Estonian Informatics Open: Top 15 within South Africa.
- Qualified Professional Level 1 Go player (China); Black Belt in Taekwondo; Level 2 swimmer (South Africa).

SKILLS

- **Technical:** Java; web development (HTML, CSS, JavaScript); effective use of AI agent tools.
- **Languages:** Mandarin and English.
- **Soft skills:** communication, problem solving, tutoring and mentoring.