Stefan L. Dixon Leung

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PROFILE

First-year Computer Science student at the University of Bristol with a decade of self-directed programming across web, AI, and embedded systems. Top-percentile finishes in international programming and mathematics olympiads. Building toward AI-driven tools for environmental sustainability.

EDUCATION

University of Bristol — *Sep 2025 – Present*

BSc Computer Science — First Year

- Coursework: Java (generics, polymorphism), discrete mathematics, algorithms, computer architecture.
- Independent study: Gödel's incompleteness theorems and their implications for LLM self-consistency.

Lycée Français Charles de Gaulle, London — *2022 – 2025*

Baccalauréat — Mention Très Bien · Spécialités: Mathématiques, NSI · Option Maths Expertes

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C/C++, HTML, CSS
Frameworks: SvelteKit, Tailwind CSS, Node.js, REST APIs
AI & Data: PyTorch, TensorFlow, Jupyter
Hardware: ESP32, Adafruit, Lego Mindstorms, Fusion 360 (CAD)
Tools: Git, Claude Code, Linux, macOS, Windows

EXPERIENCE

Founder & Lead Instructor — Community Coding Club — *2022 – May 2025*

Fulham Library, London

- Designed a curriculum for ages 7–14 (Blockly, Scratch, Python, web dev); recruited and trained a co-instructor to double class capacity.

Private Tutor — *2023 – May 2025*

- Tutored a 10-year-old in core academic subjects and programming fundamentals.

Software Engineering Work Placement — NatWest — *Summer 2023*

- Embedded with engineering teams at a major UK bank; observed full-cycle software development and cross-functional collaboration in a regulated environment.

SELECTED PROJECTS

Atmospheric CO_2 Visualisation — *SvelteKit · TypeScript · Highcharts*

- Charted atmospheric CO_2 levels from year 100 to present using a financial-grade charting library, presenting climate data in a format familiar to analysts.

ESP32 Embedded Display Project — *C/C++ · Fusion 360 · Claude Code*

- Built firmware for an ESP32 driving a 320×240 LCD; designed and 3D-printed a custom enclosure in Fusion 360; iterated rapidly using Claude Code.

Generative AI Experiments — *PyTorch · TensorFlow*

- Trained models to generate short-form text (tweets) and instrumental cover-style audio; explored the practical limits of small-scale training runs.

COMPETITIONS & AWARDS

- Concours Algoréa semifinals: 5th of 15,183 (UK) and 15th of 56,559 (France).
- Concours Castor: 1st in school in both France and the UK.
- CoderZ League international robotics: led school team to 16th place.
- Duke of Edinburgh Gold and Silver Awards.

OTHER

Skiing (expert), rock climbing, sailing (RYA Sailing Level 3, Glénans Catamaran Level 4), powerboating (RYA Powerboat Level 2), and rowing on the Thames (multiple 2nd-place finishes). Mirrorless photography and videography on a Sony α7C II. Grade 6 Acoustic Guitar.