Justin Chen

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EDUCATION

Imperial College London – United Kingdom — Sep 2026 — Jun 2029
BEng Mathematics and Computer Science

> Current course topics: functional programming with Haskell; linear algebra and groups; analysis; calculus; proofs, sets, and logic;

Chinese International School – Hong Kong SAR — Aug 2019 — May 2026
International Baccalaureate, Bilingual Diploma

> Overall: 44 out of 45 points.
> Subjects (HL: Higher level, SL: Standard level)
> HL: Mathematics: Analysis and Approaches (7), Computer Science (7), Physics (7).
> SL: Psychology (7), English A: Language and Literature (7), Chinese A: Language and Literature (6).
> Extended Essay in Computer Science (A), Theory of Knowledge in English (B).

PROJECTS

Well-being dashboard — Mar 2025 — Sep 2025

> Developed a well-being dashboard with data analytics for students and teachers independently.
> Worked with client to prototype and design capabilities of the product.
> Conducted extensive testing and deployed to pilot trial with over 20 users.
> Utilized HTML/CSS/JS, Svelte, Firebase, NLP libraries, and the D3.js data visualization library.

Extended Essay — Feb 2025 — Sep 2025

> Analyzed the size-accuracy tradeoff in compressing neural networks for image classification tasks.
> Conducted literature review on global non-iterative magnitude-based weight pruning.
> Researched theory behind neural networks and learning.
> Utilized Tensorflow/Keras (Python) to experimentally test hypotheses on compression efficacy.

EXPERIENCE

Code the Web – Founder — Nov 2024 — May 2025

> Founded and led the club to nurture interest in web development.
> Designed lesson materials, taught sessions, and organized workshops.

Economics Quarterly – Co-founder, Head of Layout and Design — Oct 2023 — Oct 2025

> Managed the student-run organization with over 20 members.
> Initiated design and presentation of the magazine, including website and newsletters.
> Contributed to editorial of 5 issues.

Clubs and societies: member of DoCSoc (Computing), MathSoc (Math), Cybersoc (Cybersecurity).

SKILLS

Languages: English (native), Chinese (native), Spanish (DELE B1 — Intermediate proficiency).
Technologies

> **Programming languages**: Java, HTML/CSS/JS, Python, C/C++, Haskell.
> **Libraries, platforms, tools**: Firebase, D3.js, Svelte, Android, Processing/p5.js, LaTeX, Figma, Canva.

AWARDS

> x4 American Invitational Mathematics Examination (AIME) qualifier (2023–2026).
> USA Computing Olympiad (USACO) Silver (Feb 2022).