

Alexander Wang

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Education

University of Cambridge — Fitzwilliam College

Cambridge, United Kingdom

Oct 2025 — Jun 2028

- Incoming First-Year, **Computer Science Tripos**

WW-P High School North (HSN)

New Jersey, United States

Sep 2021 — Jun 2025

- GPA: **4.66/4.0** | SAT: **1550** | **AP Scholar with Distinction** (10 APs: nine 5s, one 4)
- Leadership: President (CS Club), Vice President (Math Club, Business Club)

Experience

Competitive Programming Initiative (CPI) & USACO Guide

Director

Apr 2023 — June 2025

- Expanded curriculum from 190 to **340+ schools**, reaching **12K+ students** worldwide.
- Co-hosted the **USACO Guide Informatics Tournament**, designing contest problems, securing **\$1,000** in prizes, and attracting **480+** participants.

Harvard Undergraduate Ventures-TECH Summer Program

2024 Cohort 1

Jun 2024 — Jul 2024

- Developed **VC-backed startup's website** using HTML and CSS, improving frontend features and product visibility.
- **Co-founded Nebulynk**, pitching the startup to venture capitalists during Demo Week.
- Gained exposure to **agile development**, **product-market fit analysis**, and **rapid prototyping**.

Reinforcement Learning Research — Duke University (Hao-Lun Hsu, PhD Student)

Lead Research Intern

Aug 2023 — May 2024

- Designed and trained a **four-layer neural network** for fake news detection on X (Twitter), comparing supervised vs. reinforcement learning approaches.
- Achieved **96–99% classification accuracy**, with results published as a first-author paper in the National High School Journal of Science, a peer-reviewed journal.

Neural Network Research — Georgia Institute of Technology (Dr. Guillermo Goldsztein, Professor)

Lead Research Intern

Jun 2022 — Dec 2022

- Applied **logistic regression** and **artificial neural networks** (ANN) to authenticate banknotes using statistical features (variance, skewness, kurtosis, entropy), achieving **99% accuracy**.
- Published first-author paper in the **Journal of Student Research** (JSR), a peer-reviewed journal.

Projects

[Haloway](#)

Founder & Lead Developer

April 2025 – Present

- Built and deployed an **AI-powered SaaS platform** for college application support, adopted by **50+** early users.
- Engineered a full-stack system with **SvelteKit**, **Supabase**, **Stripe**, **Cloudflare**, and **Google Vertex AI**, with secure **authentication**, **scalable API integrations**, and **subscription management**.

[Hackpost Guide](#)

Founder, President, Lead Developer

Feb 2023 — Aug 2025

- Founded and scaled a nonprofit platform supporting under-resourced **hackathons**, growing to **2K+ users** in **80+ countries**.
- Developed full-stack applications in **NextJS**, **Tailwind CSS**, and **Firebase**.
- Coordinated partnerships with **15+ hackathons**, including HackPrinceton and NASA Space Apps, generating **12K+ guide views**.

Honors & Skills

- USACO Gold Division
- Modeling the Future Challenge, National Finalist
- 3x AIME Qualifier, AMC 12 Distinction
- Ronald Reagan Leadership Medal

Languages: Python, Java, C++, JavaScript/TypeScript, React, Svelte

Frameworks & Tools: SvelteKit, NextJS, Supabase, Firebase, Stripe, Cloudflare, Pytorch, Git/GitHub

Interests: Machine Learning, Full-Stack Development, Fintech, Systems & Infrastructure, Data Modeling