

Felix Fan

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EDUCATION

New York University (Courant Institute) - B.A in Computer Science and Mathematics

August 2025 – Present

Current Coursework: Basic Algorithms, Mathematics of Finance, Interactive Programming

Stanford University (Summer Session) – Visiting Student

June 2025 – August 2025

Completed Coursework: Probability for Computer Scientists, Introduction to Computer Graphics & Imaging

Boston University - B.A in Computer Science and Mathematics

September 2024 – May 2025

Awards: Dean's List - Fall 2024, Spring 2025

Completed Coursework: Data Structures, Calculus III, Linear Algebra, Combinatorics, Fundamentals of CS

Harrow International School Hong Kong – IGCSE & A-Level GCE Certification

September 2012 – July 2024

Completed Coursework: AL Mathematics, Physics, Economics; IGCSE English, Chemistry, Chinese & 7 more

SKILLS

Programming Language & Tools: Python, Java, Type/Javascript, VSCode, Cursor, Git

General Skills & Tools: FCPX, Mailchimp, Lightroom Studio, Photography & Videography, Logic Pro

Frameworks & Libraries React, Next.js, MediaPipe, OpenCV, Firebase, D3.js, Framer Motion

Areas of Interest: Computer Vision, Machine Learning Applications, Interactive Systems, Data Visualization

PROJECTS/PORTFOLIO

Computer Vision Interface for System Level Cursor Control: Built an award-winning computer-vision interface enabling real-time gesture tracking using MediaPipe Hands/Pose and PyAutoGUI. Implemented a multi-threaded interpolation algorithm for 120 Hz cursor smoothing, reducing input latency by >85%.

Designed and Hosted Next.js site for sharing application. Won Columbia Divhacks 2025. [View Site](#)

Bayesian Network Visualizer: Created as part of Stanford CS109's optional challenge project (2nd Place).

Interactive web tool for constructing and exploring Bayesian networks, supporting exact inference and randomized scenarios. Built with JavaScript, React, and a custom probabilistic inference engine. [View Project](#)

ACCOMPLISHMENTS

Competitions: 1st Place in **Columbia's Divhacks Hackathon (2025)**, 2nd Place in **Stanford's CS109 Challenge (2025)**. Silver Awards in **Intermediate Maths Challenge** and **British Physics Olympiad (2021)**,

Semi Finalist, **VEX Hong Kong Robotics Championship (2023)**, **HKEO Business Case Award**

Publications: Published articles on technological ethics through **ISSIA** and *Technological Harrovian*.

Participated in **Hague International Model United Nations (MUN)** conference.

Performance: ABRSM Grade 8 Clarinet Performance Certificate (with Merit); JSMA Intermediate Gold Awards in Woodwind and Singing Solos; HKMSA Silver Guitar Solo Intermediate.

LEADERSHIP

Clubs and Events: **Organizer for HackNYU (2025–Present)**, with main role of Digital Media and UI/UX, overseeing cross-campus branding, sponsor partnerships, and event marketing. Directed promotional content, amassing over 100,000 views in the last 90 days. **Director of Marketing for Boston**

University's Artificial Intelligence Society (2024), leading digital outreach and campaign strategy to promote AI research events. Managed social media growth, video production, and creative collaborations with student organizations.

Charity: **Co-Founder of BU's Stroke Awareness Society (2025)**, serving as Acting Treasurer and Marketing Director. Assisted the **Greater Bay Youth Development Association (2022–2024)** with fundraising, project coordination, and data analysis.

Musical Performances: Lead vocalist for **Senior Soul Band, Jazz Band (2022–2024)** and **Pop Orchestra (2023–2024)**. Member of **School Choir (2012–2020)**, **Chamber Choir (2019–2021)**, and **School Acapella Group (2017–2024)**.