Justin Hwang

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EDUCATION

University of Chicago
Chicago, IL

B.A. in Computer Science & B.A. in Mathematics | GPA: 4.0/4.0
Jun 2028 (Expected)

- **Relevant Coursework:** Intro to Computer Science I-II, Discrete Mathematics, Abstract Linear Algebra, Analysis in Rn I, Basic Algebra I
- **Financial Markets Program:** Selective 3-year program focused on building quantitative finance acumen through weekly workshops, personalized advising, employer visits and coursework at the Chicago Booth School of Business

Northern Valley Regional High School At Demarest
Demarest, NJ

High School Diploma | GPA: 4.55/4.0
Jun 2024

- **Activities:** NJ All-State Band, Varsity Golf, Math Club President, Computer Science Club President

EXPERIENCE

University of Chicago Human + AI Lab
Chicago, IL

Machine Learning Research Intern
Jun 2025 – Present

- Research Persuasion-Balanced Training, which teaches LLMs to appropriately accept or resist persuasion
- Implement and extend ML training methods with dialogue simulations and preference optimization techniques
- Collaborate weekly with faculty to design experiments, evaluate model robustness, and prepare for publication

Art of Problem Solving
Remote

Teaching Assistant & Grader
Apr 2025 - Present

- Facilitate online math lessons to 55 advanced middle and high school students on counting & probability
- Provide detailed feedback on 100 problem submissions weekly, focusing on mathematical rigor and style
- Coordinate with instructional teams to refine grading practices and support student learning outcomes

Harvard Medical School
Boston, MA

Machine Learning Research Intern
Jun 2023 – Aug 2023

- Developed a deep learning pipeline using PyTorch and OpenCV to detect abnormalities in chest X-rays
- Trained a convolutional neural network achieving 93.10% accuracy on a dataset of 1,740 radiographs
- Presented findings in a 12-page research paper at Massachusetts General Hospital under postdoctoral supervision

ACTIVITIES & LEADERSHIP

Derivatives Group Quantitative Trading
Chicago, IL

University of Chicago
Oct 2025 – Present

- Analyze financial time series data to predict asset returns, volatility, and interest rates
- Explore mathematical foundations of financial derivatives, such as probability theory, asset pricing, Black-Scholes

Math & Computer Science Club President
Demarest, NJ

Northern Valley Regional High School At Demarest
Sep 2022 - Jun 2024

- Led 100 high school students total in weekly meetings for both clubs
- Planned detailed meeting agendas to teach math and computer science to students of all levels
- Prepared students for contests like USACO and AMC, with 33% more students advancing

Tenakill Middle School Mathcounts Coach
Closter, NJ

Tenakill Middle School
Sep 2021 – Mar 2024

- Prepared 30 middle school students at alma mater weekly for Mathcounts, a national math competition series
- Secured $3,000 in funding by collaborating with the school administration
- Finished 3rd place team out of 30+ middle schools in the Chapter competition in 2023, 2024

AWARDS

- AIME 5x Qualifier (Score: 9), AMC 10/12 Honor Roll, $10,000 Hanwha Math Scholarship Winner