Tina Wang

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Education

Massachusetts Institute of Technology – BS in Computer Science   Expected May 2027
- 5.0 / 5.0 GPA
- Relevant coursework: Machine Learning, Deep Learning, Natural Language Processing, Operating Systems, Computer Vision, Computational Structures, Probability and Random Variables, Advanced Algorithms

Marquette High School – High School Diploma   May 2024
- 4.0 UW / 4.622 W GPA

Experiences

Software Engineer, Citadel Securities – New York City   Jun 2025 – Aug 2025
- Profiled and optimized critical execution processing fast path for multiple exchanges, improving fast path by around 60% in nanos and over 75% in cache misses, driving measurable improvements in stgy usage
- Created a new API for performance monitoring library in C++ and integrated into 4 existing use cases with shareholders across the low-latency team

Full-Stack Software Developer, Passes – Remote   Feb 2025 – Apr 2025
- Developed bulk operations for user role management, credit adjustments, and internal note handling in Typescript
- Built regional content moderation tools and introduced follower/subscriber privacy settings

Women in Trading and Technology Program, Hudson River Trading – New York City, NY   Jan 2025
- Developed a high-frequency trading algorithm for the Brazilian trading market, trading over $800k notional and 200k shares over 4 days, conducting research on trading patterns and strategies to identify profitable opportunities in fast-paced environments.
- Implemented market orderbook in C++ to translate raw data streams into viewable information and process transactions, achieving a 25% speedup against the general implementation

Independent Researcher, Copyright Infringement Project, Undergraduate Research Opportunities Program, MIT – Cambridge, MA   Sep 2024 – Dec 2024
- Implemented a web scraper and image extractor in Python to analyze court cases in copyright infringement
- Trained AI model to analyze and label images and determine court outcomes

Independent Researcher, Washington University in St. Louis – St. Louis, MO   Aug 2022 – Aug 2023
- Co-authored "TopoRoot+: computing whorl and soil line traits of field-excavated maize roots from CT imaging," Plant Methods 20:132, 2024.
- Enabled functions to allow user correct coloring errors and root topology in C++ using search algorithms such as depth-first search and Dijkstra's.

Web Development Head, BracketCS (CerealCodes) – Remote   Nov 2022 – July 2024
- Built a team to create website to host open-to-all contests for more than 900 participants using React Native, Tailwind CSS, and Firebase, including a custom grader to submit problems

Honors and Awards

- Gold medalist, 13th overall at **European Girls' Olympiad in Informatics** (2023) representing the USA
- 2x **USA Computing Olympiad** (USACO) Finalist (2023, 2024); USACO Platinum Division (2022); USACO coach and problem setter (2024)
- Top 700 in **Meta Hacker Cup** (2022-2024)
- 2023 Young Women in Mathematics Certificates winner as top 5 girls' **AMC 12** scores in Missouri

Skills

Languages: C++, Python, HTML, CSS, JavaScript, Typescript, git
Frameworks and Libraries: React, Node.js, Next.js, Tailwind, Knex
Other: Quantitative trading, Quantitative research, Algorithm design & analysis