

Andrew Cheng

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EDUCATION

Stony Brook University

Bachelor of Science in Computer Science

Stony Brook, NY

Aug. 2024 – May 2028

East Meadow High School

High School Diploma

East Meadow, NY

Sept. 2020 – June 2024

- Salutatorian (Rank 2/390)
- National Merit Finalist, AP Scholar with Distinction, American Mathematics Competition Award

EXPERIENCE

STEM Instructor

July 2023 – Aug. 2024

Mathnasium

Levittown, NY

- Tutored 20+ weekly students in Geometry, Algebra 1-2, Pre-Calculus, AP Calculus, AP Chemistry, Statistics, & Computer Science.
- Designed summer programs preparing students for the AMC/AIME, and developing beginner programming skills in Python.
- Developed a system to transfer contact information of 500+ parents from scanned documents into Google Sheets and import to Google Contacts.

IMC Prosperity Competitor

Apr. 2024

IMC Trading

Remote

- Competed in IMC's Prosperity Trading Challenge, a 15-day global competition with a \$50,000 prize pool, with simulated trading scenarios across five rounds.
- Collaborated with a team to develop Python trading algorithms, leveraging analytical skills.
- Applied probability distributions, game theory, and calculus to optimize strategy in manual trading rounds.
- Placed top 500 placement internationally out of 13,000 participants including top university students and industry professionals from firms like Citadel and D.E. Shaw.

Python Program Director

Jan. 2024 - Apr. 2024

East Meadow Public Library

East Meadow, NY

- Proposed and headed weekly introductory programming program at EM Public Library for middle school students.
- Created a comprehensive curriculum tailored for beginners, covering fundamental programming concepts in Python/NumPy.
- Structured a series of interactive sessions that included hands-on coding exercises, projects, and assessments
- Managed program logistics, such as scheduling, venue setup, and participant enrollment.
- Analyzed participant progress and outcomes, adapting the curriculum to better meet learners' needs.
- Fostered relationship with local schools to promote the program to more students in the community.

President, Captain

Oct. 2021 - Jun 2024

Mu Alpha Theta Math Honor Society

East Meadow, NY

- Led an organization with 100+ members dedicated to learning and using math to benefit the community in three sectors: Peer Tutoring, Community Connections, and Math Team.
- Created free monthly SAT Bootcamp that leveraged practice test data to tailor a curriculum for 40+ students.
- Facilitated district-wide STEM Night by organizing 60+ volunteers into 30+ activities promoting K-6 STEM engagement including creating magnetic slime and programming Ozobots.
- First individual top 10 at the Nassau Math Tournament. Led team to top 10 in Nassau Math Tournament, top 5 in NCIML, and brought first 5 members to compete at ARML/NYSML as part of Nassau County All Star Team (Top 50 in county).
- Used Overleaf and LaTeX to create handouts that were correlated with a 15% increase in average scores on the AMC.

TECHNICAL SKILLS/INTERESTS

Languages: C++, JavaScript, HTML/CSS, Java, Python, LaTeX

Developer Tools: Git, VS Code, Visual Studio, Netlify, Overleaf

Interests: Competitive Programming, Contest Math, Teaching, Running, Poker, Anime, Music, Teamfight Tactics