

Claire Zheng

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EDUCATION

Class of 2026	BS in Computer Science and Engineering, Massachusetts Institute of Technology <ul style="list-style-type: none">GPA: 4.9/5.0Relevant Coursework: Software Construction, Natural Language Processing, Computer Vision, Statistics, Machine Learning, Algorithms, Probability and Random Variables
Aug 2019 - Jun 2022	North Allegheny Senior High School <ul style="list-style-type: none">Class Ranking: 1/704, GPA: 4.76/4.0, 21 AP courses taken, ACT: 36

SKILLS

Programming Languages: Python, Typescript, Java, Javascript, C++, C
Tools: Git, APIs, React, Node.js, Pandas, NumPy, Tensorflow, scikit-learn, and Pytorch

EXPERIENCE

May 2024 - Aug 2024	Software Engineering Intern, Lazarus AI <ul style="list-style-type: none">Developed microservices to aid in creation of foundational AI models for document understanding and data extractionCreated a billing microservice API to integrate customer finances with the Stripe API
Jan 2023 - present	Undergraduate Researcher, Laboratory for Multiscale Regenerative Technologies, Koch Institute, MIT <ul style="list-style-type: none"><i>In silico</i> structural analysis of protein nanobody docking using the AlphaFold 3 modelData processing and classification analysis through random forest models of mass spectrometry signals collected from exhaled breath with PythonComputationally designed optimal protein sequences to aid in targeted diagnostic approaches in lung diseases
Sep 2023 - present	Lab Assistant, Machine Learning, Python, and Data Science Courses, MIT <ul style="list-style-type: none">Assist students and implement check-offs at lab sections and office hours, test and debug draft assignments for students, attend weekly staff meetings
April 2024	Optiver Insight Days Program Participant <ul style="list-style-type: none">Explored tech pathways and core fundamentals of trading, coded a mock trading bot
Jan 2024	Jane Street INSIGHT Trading Track Program Participant <ul style="list-style-type: none">Participated in mock trading sessions, studied market making and game theory
Jun - Aug 2022	Business Analyst Intern, I-Corps at NIH Entrepreneurship Training Program <ul style="list-style-type: none">Developed business model with cancer diagnostic startup by conducting 100+ customer discovery interviews with oncologists, diagnostic companies, and FDA regulatory consultantsAwarded by the NIH Small Business Innovation Research (SBIR) Grant to be trained by biotech sector experts and serial entrepreneurs

AWARDS

- 5-Time American Invitational Mathematics Exam (AIME) Qualifier with Distinction
- 3-Time Invitee to the Math Prize for Girls Competition at MIT (placed in top 43 in the nation)
- U.S. National Chemistry Olympiad (USNCO) Honors (top 150 in nation)

EXTRACURRICULARS

Sep 2022 - present	President, Traders@MIT <ul style="list-style-type: none">Organize and host the nation's largest annual intercollegiate quantitative trading competitionTest-solve market making and data science cases
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