MICHAEL ZHANG

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EDUCATION

Massachusetts Institute of Technology | Cambridge, MA   *May 2023*
Bachelor of Science: Double Major in Computer Science and Math, Minor in Physics   GPA: 5.0/5.0
Relevant Coursework: Machine Learning, Statistical Learning Theory, Algorithms for Inference, NLP

Saratoga High School | Saratoga, CA   *Jun 2019*
High School Diploma   GPA: 4.0/4.0

WORK EXPERIENCE

Quantitative Trading Intern, Optiver | Chicago, IL   *Jun 2021 - Aug 2021*
- Excelled in a four-week option theory course and an intern algotrading competition.
- Traded S&P futures and options in a simulated environment with live market data.
- Developed a pricing model for Nasdaq and Russell wing options.

Undergraduate Researcher, MIT Quest for Intelligence | Cambridge, MA   *Sep 2020 - Dec 2021*
- Optimized neural networks for performing symbolic regression on datasets involving extrapolation.
- Developed an architecture for fitting equations to data governed by parametric and differential equations.
- Investigated the end-to-end training of complex models incorporating symbolic regression networks.

Software Engineering Intern, PayPal | San Jose, CA   *May 2020 - Aug 2020*
- Built sentiment analysis models to analyze posts on social media and interactions with customer service.
- Created baseline models to validate H2O.ai software for PayPal use.
- Tech stack: Python, Pytorch, NLP, BERT, MLflow, transfer learning.

Math Instructor, AlphaStar Academy | Saratoga, CA   *Jun 2019*
- Lectured to small classes about topics in algebra, number theory, and combinatorics.
- Improved and contributed new content to AlphaStar's collection of lecture notes.

AWARDS

- USA Computing Olympiad Finalist (top 26 in U.S.)   - Putnam Competition Top 500
- USA Math Olympiad Qualifier (score: 15)   - Stanford ProCo Grand Prize
- USA Physics Olympiad Silver Medalist   - received $2,500 National Merit Scholarship

LEADERSHIP & VOLUNTEER EXPERIENCE

Math Club   *Sep 2015 - May 2019*
President
- Organized weekly meetings that usually involved solving problems and student speakers.
- Dealt with the logistics behind administering national contests (AMC, AIME, etc.).
- Streamlined student registration for local math competitions (SMT, BMT, etc.).

ADDITIONAL SKILLS

Computer: Python, Pytorch, Tensorflow, Java, JavaScript, React.js, Latex
Languages: conversational proficiency in Mandarin, basic skills in Spanish