

Andrea Lin

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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

- Candidate for a B.S. in Computer Science and Engineering
- GPA: 4.7/5.0

May 2022

• Relevant Coursework: Cryptography, Computer Systems Engineering, Algorithms, Theory of Computation, Software Construction, Machine Learning, Data Science, Microeconomics, Probability, Linear Algebra, Differential Equations

EXPERIENCE

Facebook

Menlo Park, CA

Software Engineer Intern

June 2021-September 2021

- Developed an integration test in Python to ensure the correctness and performance of the load balancer for internal services
- The test monitors changes in CPU and memory levels when draining traffic from a data center

Software Engineer Intern

May 2020-August 2020

- Full-stack web development on Instagram in desktop mode, using Django in Python, GraphQL, React.js, and Redux

Facebook University Engineering Intern

June 2019-August 2019

- Collaborated on a team of three interns to build a mobile app that places car parking reservations for listed driveways
- Learned iOS development in Objective-C and designed, queried, and managed a backend database

Jane Street

New York, NY

INSIGHT Software Engineering Program

January 2020

- One of 25 undergraduates invited to a training track at Jane Street's offices to learn OCaml and build trading systems
- Implemented algorithms to simulate trading bonds, stocks, and ETFs in an Electronic Trading Competition

PhET Interactive Simulations

Boulder, CO

Software Development Intern

May 2016-August 2018

- Published a new version of Projectile Motion in HTML5 that is suitable for various levels of technological access in schools
- The JavaScript simulation has been translated into over 40 languages and has over a million uses by students worldwide

LEADERSHIP

MIT 6.S060 Foundations of Computer Security

Cambridge, MA

Lab Assistant

September 2021-Present

- Provide feedback on and design autograder tests for coding labs about securing systems such as photo sharing web apps
- Coordinate with professors to develop and grade problems that teach the theory of cryptography, including message authentication codes, digital signatures, public key encryption, and trust

MIT Figure Skating Club

Cambridge, MA

Intercollegiate Team Captain

May 2019-May 2021

- Recruited MIT skaters for competitions and communicating with registration centers for the team

Colorado Math Circle

Boulder, CO

Teacher

August 2014-June 2018

- Directed after-school math competition practice for groups of 4-6 students from urban middle school and home schools

HONORS

PyCon in Cleveland *Grant Recipient*

2019

Society of Women Engineers Rocky Mtn. Division *Freshman Scholarship Winner*

2018

American Invitational Mathematics Examination (AIME) *Qualifier*

2015, 2017, 2018

Colorado Science and Engineering Fair Computer Science *2nd Place Winner*

2016

SKILLS

Languages: Python, Java, Objective-C, JavaScript, OCaml, Unix, LaTeX, English (native), Chinese (native), French (basic)

Activities: MIT Figure Skating Club, MIT Asian Dance Team, MIT Literary Society