Andrea Lin

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EDUCATION

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
• Candidate for a B.S. in Computer Science and Engineering May 2022
• GPA: 4.7/5.0

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

INDUSTRY 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
• Analyzed and shared a report on the 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
• Mentored another intern from my high school on coding a physics simulation and joining the PhET team

TEACHING EXPERIENCE

MIT 6.S060 Foundations of Computer Security **Cambridge, MA**
Lab Assistant September 2021-Present

• Evaluate and improve Python autograder tests for labs on implementing security protocols for systems like photo sharing 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 6.840 Theory of Computation **Cambridge, MA**
Grader September 2021-Present

MIT 6.006 Introduction to Algorithms **Cambridge, MA**
Tutor Sep 2020-Dec 2020

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

RESEARCH EXPERIENCE

Viral Communications, MIT Media Lab Cambridge, MA
Undergraduate Researcher October 2018-May 2019

• Proposed technical ideas for a project that investigates cultural inclusion through physical devices
• Built peer-to-peer networks with InterPlanetary File System (IPFS)

HONORS

PyCon in Cleveland *Grant Recipient*	2019
O'Reilly Artificial Intelligence Conference in New York *Scholarship Recipient*	2019
National Center for Women in Technology (NCWIT) *National Honorable Mention*	2018
Society of Women Engineers Rocky Mtn. Division *Freshman Scholarship Winner*	2018
American Invitational Mathematics Examination (AIME) *Qualifier*	2015, 2017, 2018
N. American Computational Linguistics Olympiad (NACLO) *Invitational Qualifier*	2017
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