

CATHERINE YEO

▶ EDUCATION

Harvard University 2018 to 2022

A. B. Computer Science & Mathematics

- GPA: 4.0

- Activities: HackHarvard Executive

Board (Co-Director of Operations),

Women in Computer Science, Tuesday Literary Magazine

- Relevant Coursework: Data Structures

& Algorithms, Theoretical Linear

Algebra, Real Analysis

Online Coursework

- Machine Learning, Coursera: Stanford University (2016) - Certificate Earned

- Intro to Data Analysis, Udacity (2017)

- Algorithmic Toolbox, Coursera: UC San Diego (2018) - Certificate Earned

▶ CONTACT

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▶ AWARDS

AI4ALL Future Leaders in AI Research Fellowship

Spirit of Ramanujan Global Math Talent Search Fellowship

NCWIT Bay Area Affiliate Award for Aspirations in Computing Winner & National Runner-Up

Apple WWDC Scholarship Recipient

She++ #include Fellowship (Awarded for Technology Outreach)

▶ SKILLS

TECHNICAL: Python, Java, HTML/CSS, JavaScript, Mathematica, LaTeX, iOS app dev, Arduino, SQL

OTHER: Writing, Excel, Powerpoint, Public Speaking, Canva, Social Media

INTERESTS: Creative Writing, Swimming, Calligraphy

▶ WORK EXPERIENCE

Apple · *Incoming Software Engineering Intern*

May 2019 to Aug. 2019

AI4ALL · *AI Research Fellow*

Feb. 2018 to June 2018

- Built a Python (Tensorflow, Keras, Gym, Baselines) platform that uses reinforcement learning to create automated teachers for math problems by training AI students. This platform involved a multi-AI system, with a recurrent neural network (RNN) based student AI and reinforcement learning based teacher AI.

- Recipient of AI4ALL's Future Leaders in AI Research Fellowship.

Emory University · *Mathematics Research Fellow*

June 2017 to July 2017

- Conducted number theory research on producing an infinite class of polynomials that satisfies the Riemann Hypothesis. One paper co-authored & published.

- Participated in Emory University's NSF-sponsored REU (Research Experiences for Undergraduates) under Professor Ken Ono as the only high school student in the program. Awarded through & sponsored by the Spirit of Ramanujan Fellowship.

Khan Academy · *Content Team Intern*

May 2015 to June 2015

- Created math and computer programming exercises and quizzes and evaluated ~2000 videos for the Khan Academy Talent Search video contest as the youngest employee of the company.

▶ LEADERSHIP & ACTIVITIES

PixelHacks · *Founder/Director*

Oct. 2016 to Aug. 2018

- Founded & presided over PixelHacks, the Bay Area's first all-female and student-run high school hackathon. Introduced 200+ high school women to computer science, technology, and entrepreneurship. Oversaw logistics, managed team, & obtained \$50K+ of monetary & in-kind sponsorships over 2 years.

- Featured by Teen Vogue, Yahoo News, CS4ALL, and other outlets.

Khan Academy's Student Advisory Council · *Director*

July 2015 to Aug. 2017

- Headed the national council of 40 high school and college students.

- Designed, advised, and reviewed projects that helped improve Khan Academy's content and strategy (for example, reviewing math and science videos/articles and providing feedback on how the articles could be improved for students).

▶ INDEPENDENT PROJECTS

SafePlates

Nov. 2018 to Dec. 2018

Created web app that outputs restaurant recommendations based on a user's inputted dietary restrictions and location using Python (Flask, Selenium, BeautifulSoup), HTML, CSS, & Javascript. Built with teammate for Harvard's CS50 Final Project.

Letter Pop

Mar. 2014 to June 2016

Developed an Android and iOS educational game called Letter Pop, in which there are letters on balloons and you pop the balloons to spell out valid words. The goal of this game is to improve users' spelling and vocabulary.

Categorizing Hurricane Sandy Tweets

Aug. 2015

Utilized natural-language processing to aid disaster relief, specifically categorizing tweets from Hurricane Sandy into those asking for help and those providing help. Developed at Stanford's AI Lab Summer Outreach Summer Program (SAILORS).