# Albert Zhang

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## Education

**UC Berkeley** ..... Technical GPA: 4.00/4.00
2018-2021 Non-Technical GPA: 3.98/4.00
B.A. Mathematics & Computer Science

**Harvard Extension School** ..... Concurrent Enrollment in High School
2016-2017

**Lexington High School** ..... GPA 3.97/4.00
2014-2018

## Experience

### Amazon - SDE Intern
Summer 2020

### CS 70 & 170 - Reader
Spring 2020 - Present
Course staff member for discrete math & probability as well as upper division algorithms course. Responsibilities include grading, writing problems, holding office hours, and attending meetings.

## Skills
Python, C/C++, Java, LaTeX, HTML/CSS, Matlab, Git

## Projects

### MADS Library (C++)
A Math, Algorithms, & Data Structures static library in C++. Contains things like matrix algebra, graph algorithms, gaussian integers, and more.

### 2048 RL (Python, NumPy)
Applied Q-Learning and Feature-Based Learning techniques to efficiently solve the classic puzzle of 2048.

### Music Generation (Python, Numpy)
Utilized markov chains to model melodies from a variety of classical and contemporary composers.

## Research

### MIT PRIMES
2016 -2017
Explored the methodologies of Enumerative Combinatorics with a graduate advisor. Co-authored an expository paper.

## Achievements
2 Time **USA Math Olympiad** Qualifier
Honorable Mention

5 Time **AIME** Qualifier

**Princeton Math Competition**
Individual Finalist

**CMU Informatics & Math Competition**
Geometry Honorable Mention

## Coursework

**Mathematics**
Measure Theoretic Probability Theory †
Honors Complex Analysis
Honors Abstract Algebra
Honors Linear Algebra
Real Analysis
Numerical Analysis
Discrete Math
Partial Differential Equations

**Computer Science**
Randomized Algorithms †
Deep Neural Networks
Machine Learning
Signals & Systems
Convex Optimization
Artificial Intelligence
Probability & Random Processes
Algorithms
Data Structures

† Indicates Graduate Coursework