Albert Zhang

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EDUCATION

UC Berkeley
BA in Math & CS
Expected 2021

Technical GPA: 4.00/4.00
Non-Technical GPA: 3.97/4.00

Harvard Extension
2016-2017

Concurrent Enrollment

Lexington High School
2014-2018

GPA: 3.97/4.30

COURSEWORK

Mathematics
- Topology & Analysis *
- Probability Theory *
- Honors Linear Algebra
- Honors Abstract Algebra
- Real Analysis
- Discrete Math

Computer Science
- Combinatorial Algorithms *
- Machine Learning
- Random Processes
- Artificial Intelligence
- Optimization
- Data Structures

(* indicates graduate coursework)

PROGRAMMING

Python • 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 (ongoing project).

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

MusicGen   Python
Utilized markov chains to model melodies from a variety of classical and contemporary composers.

AWARDS

2 Time USA(J)MO Qualifier (USAJMO Honorable Mention)
5 Time AIME Qualifier
PUMaC Individual Finalist (7th Geometry, 17th Combinatorics)
CMIMC Geometry Honorable Mention

RESEARCH

MIT PRIMES | Mathematics Research Program
2016 | Cambridge, MA
Explored the methodologies of Enumerative Combinatorics with a fellow student under the guidance of a graduate mentor. Co-authored an expository paper.