CINDY WANG

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EDUCATION

Massachusetts Institute of Technology **Cambridge, MA**
Candidate for Bachelor of Science in Computer Science *Aug 2019 - May 2023*
Relevant coursework taken: Fundamentals of Programming; Computer Thinking & Data Sci; CS Programming in Python; Computer Algorithms; Web Development

The Harker School **San Jose, CA**
High School Diploma, GPA: 4.53/4.7 *Aug 2015 - May 2019*

EXPERIENCE

Software Engineering Intern, Broad Institute *Jun 2020 - present*
• Drove end-to-end renewal effort of MISCAST Project (miscast.appspot.com) using React and NodeJS. Revamped codebase and developed major new features like gene visualization with PyMOL and automatic sequence alignment for protein isoforms.
• Produced design mockups and interviewed research scientists to gather feedback. Deployed final product on Google Cloud.

Habit Aquarium, a MIT web.lab Project *Jan 2020*
• Developed a habit tracking web app (habitaquarium.herokuapp.com) using React, NodeJS, and MongoDB.

Assistant Debate Coach, The Harker School *Jul 2019 - present*
• Mentored high school students through tournament preparation and led efficient evidence sharing.

Business Operations Intern, TAL *Jun 2019 - Jul 2019*
• Analysis, interpretation, and reporting of service and sales data.
• Identified trends in Competition Math class enrollment and improved promotional strategies.
• Designed and implemented reports to analyze and display data for all assigned projects.
• Developed free trial marketing system for Internet education platform.

Teaching Assistant, Harker Summer Institute *Jul 2018 - Aug 2018*
• Mentored middle school students in App Inventor and Advanced Debate enrichment classes.

Student Science Training Program (SSTP) *Jun 2017 - Aug 2017*
• Applied a machine learning approach using Tensorflow for absorption line detection in astrophysics; second author of paper published in Monthly Notices of the Royal Astronomical Society

AWARDS

Presidential Scholar Semifinalist 2019
Regeneron Science Talent Search Top 300 Scholar 2019
• Title: "Analyzing Gamma-ray Emissions of High-energy Blazars to Probe the Extragalactic Background Light"
• Data analysis using the Fermi Science Tools Python package
• Analyzed newest dataset to invalidate current models for extragalactic background light using Python
Math and Physics Competitions
• Qualified to USAPhO 2017; Qualified to AIME 2014, 2015, 2016, 2017, 2018, 2019
• 1st prize BAMO-8 2014, Honorable mention BAMO-8 2015, Honorable mention BAMO-12 2016
Santa Clara Valley Science and Engineering Fair Synopsys 2016
• 1st place in Physical Science and Engineering
• Created app for drone flight path charting for DJI Phantom 3 in Android Studio using Google Maps and spline interpolation.

TECHNICAL SKILLS

Programming: Java, Python, HTML, CSS, JavaScript, NodeJS
Typesetting & Mathematics: LaTeX, Mathematica, MATLAB

ACTIVITIES

MIT Cheerleading
MIT Figure Skating
Women in EECS (WiEECS)
MIT Asian Dance Team
Society of Women Engineers
Alpha Chi Omega - Theta Omicron Chapter