CINDY WANG

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EDUCATION

Massachusetts Institute of Technology **Cambridge, MA**
Candidate for Bachelor of Science in Computer Science *Aug 2019 - May 2022*
Relevant coursework taken: Computer Algorithms; Machine Learning; *GPA: 5.0*
Fundamentals of Programming; Computer Thinking & Data Sci; CS Programming in Python;
Web Development; Computation Structures

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*
• Owned renewal effort of MISCAST Project (miscast.appspot.com) using React and NodeJS. Produced over 50,000+ lines of code. Revamped codebase and developed major new features like gene visualization and automatic protein sequence alignment.
• Produced design mockups and interviewed research scientists to gather feedback. Deployed final product on Google Cloud.

Business Operations Intern, TAL *Jun 2019 - Jul 2019*
• Identified trends in Competition Math class enrollment and improved promotional strategies.
• Developed free trial marketing system for Internet education platform.

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

PROJECTS

VibeCheck - HackMIT Project *Oct 2020*
• Developed a Chrome extension and backend for organizing ad-hoc Zoom meetings using React, NodeJS, and Firestore.
• Integrated with Zoom API to generate meetings on-demand. Deployed on serverless architecture for maximum efficiency.

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

Analyzing Gamma-ray Emissions of High-energy Blazars to Probe the Extragalactic Background Light *Feb 2019*
• Performed astrophysics research at University of Florida: analyzed newest dataset to invalidate current models for extragalactic background light using Python, collaborated with NASA researchers on latest algorithms, and presented final findings.

AWARDS

Presidential Scholar Semifinalist 2019
Regeneron Science Talent Search Top 300 Scholar 2019
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