

Justin Hsu

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Education:

Carnegie Mellon University, Pittsburgh PA

Bachelor of Science in Computer Science, May 2023

GPA: 3.78/4.00

Carlmont High School, Belmont, CA

Diploma, June 2019

GPA: 3.83/4.00

Coursework:

Concepts in Mathematics, Imperative Programming, Matrices and Linear Transformations, Astrophysics, Theoretical Computer Science, Functional Programming, Calculus 3d, Statistical Inference

Projects:

[Website 2020](#) - Used HTML, CSS, and JS to create my own personal website to showcase my projects and practice JS

3D Rubik's Cube 2020 - Modeled a Rubik's Cube in 3D that includes the animation of turns, using pyglet

Connect Four 2020 - It's the name itself except that you play against the CPU. This computer uses alpha beta pruning to calculate a few steps ahead by looking at clumps of red and black pieces and determining the "best" possible move.

Clapper 2018 - Soldered together an electric condenser, a programmed ATtiny85, and other components on a PCB board that could recognize the sound of two consecutive claps in order to turn ON/OFF a GFCI outlet box

Mario Maker 2017 - Simulating the graphics and physics associated with MarioMaker using Java GUI Swing and also created a map editor that replicated creativity that Mario Maker conveyed

Pacman 2017 - Knock-off version of pacman using Java GUI Swing

Experience:

San Carlos Youth Advisory Council (2016-2019)

Awesome Math Camp (2017)

Volunteer Math Tutor for Elementary School Kids (June 2015 - July 2015)

Technical Skills:

Python, C, HTML/CSS/Javascript, Java

Activities:

CMU Varsity Cross Country (2019 - present)

Computer Science Club (2016 - 2019)

Honors:

Bruce Usher Memorial Scholarship 2019 - Awarded based on Math and Athletics

CCS Scholar-Athlete Scholarship 2019

San Carlos Kiwanis Outstanding Achievement Scholarship 2019

San Mateo Daily Journal Cross Country Athlete of the year 2019