Wesley Maa

A high school student who loves to tinker

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ACTIVITIES

National University of Singapore AI Lab
June 2021 – Present
- Machine learning based semantic segmentation for processing street-view images and digital mapping with Pytorch
- NLP for automatic speech recognition

UCSB Summer Research Academies
Summer 2021
- Course on Morphological Computation
- In-depth team project on the development of a haptic feedback based navigation device

Silicon Valley Robotics
Jan 2021 – Present
- Volunteer organizer to arrange lecture series with notable roboticists

Palo Alto Youth Commission (PAYC)
Sept 2020 – 2021
- Student body organization committed to servicing the needs of the teen community by serving as a voice toward change and action. PAYC addresses issues relevant to the teen community by working with the local government and city council to develop creative and engaging ways to raise awareness

Stanford Pre-Collegiate Studies
Summer 2020
- Materials Science and Engineering at Stanford Summer Institutes
- Stanford Science Circle and Humanity Circle

Stanford Logic Institute
Summer 2020

MIT Beaver Works Summer Institute
Summer 2020
- Explored the application of Bluetooth to proximity detection for COVID-19 Contact Tracing
- One of 140 participants

Carnegie Mellon University Pre-College Program
Summer 2020
- NanoScience and Technology. University credit course
- One of 180 students admitted to the program

EDUCATION

Palo Alto High School
Palo Alto, CA
August 2019 - June 2023
- GPA: 4.42 weighted
- SAT: 790 EBRW, 800 Math

American School in Japan
Tokyo, Japan
August 2014 - December 2018

SKILLS

3D CAD in Solidworks, Fusion360, and Rhino3D

Matlab, Mathematica

Python, Java, C, C#, HTML/CSS/JavaScript

(github.com/WT-MM)

Pytorch

Raspberry Pi, Arduino

OTHER INTERESTS

Swimming, Badminton

Guitar

Rubik's Cubes

Jump Robotics — *Co-Founder, Co-Captain, Software Lead*
November 2019 - Present
- Responsible for all aspects of design, mechanical build, software, marketing, and fundraising with an emphasis on software and design
- Competes in the FIRST Robotics Competition

Palo Alto High School Speech and Debate Club
October 2019 - Present
- Lincoln Douglas debate

American School in Japan VEX Robotics Team
September 2016 - January 2019
- Captain of the 901M: Roight team in 2018-2019
- Competed in the ASIJ VEX Robotics Tournament in Tokyo, Japan

Johns Hopkins Center for Talented Youth
June 2016 - July 2019
- Introduction to Astronomy
- Existentialism: On Being Human
- Model UN

STEAMBuilders, Japan — *Teacher's Assistant*
January 2017 - June 2017
- Taught elementary students in Scratch, Lego Mindstorms, and WeDo 2.0
- Helped facilitate math workshops

AWARDS

- Achievement award from United States Navy and Marine Corps for "Magnetohydrodynamic Drive Propulsion" project at the Synopsys Silicon Valley Science and Technology Championship
- 2020 - President's Volunteer Service Award for 100 hours of community service

edX/Coursera Courses / Certificates Available

- Stanford CSX0003 Algorithms: Design and Analysis, Part 1
- MIT 6.00.1x Introduction to Computer Science and Programming Using Python
- HarvardX Introduction to Digital Humanities
- Coursera Miracles of Human Language: Introduction to Linguistics

University Credit Courses / Transcript Available

- Carnegie Mellon University: Introduction to Nanoscience and Technology (June 28,

2020 - Aug 7, 2020)
- De Anza College: Design and Manufacturing Technologies: SolidWorks (April 6, 2020 - June 20, 2020)
- UMass Amherst: How Language Works - Intro to Linguistic Theory (Spring 2022)