Charles Tang

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EDUCATION

Massachusetts Academy of Math and Science   Year of Graduation – 2024
- Teams: Math, Programming, Cyberpatriot; Clubs: CAD, Creative Eng.; SAT: 1560 (Math: 800, EBRW: 760)
- Relevant coursework: AP Calculus BC, AP Economics, APCSA, Calculus III, Linear Algebra

EXPERIENCE

Founder & Director   Jun. 2020 – Present
Iridium Tutoring Ltd. | Southborough, MA

Founded a 501(c)(3) nonprofit free tutoring organization with **400+ students**, **9000+ tutoring sessions**, and **150+ volunteers**. I oversee core strategies, project development, partnerships, and donor/student relations.
- Fundraised over **$10,000 in donations and philanthropic grants**
- Featured on regional news outlets: FOX Boston, CBS Boston, ABC Boston, etc.

Research Assistant   Mar. 2021 – Sep. 2021
Worcester Polytechnic Institute | Worcester, MA

Assisted Prof. Schaumont and Archanaa Krishnan Ph.D. on COVID-19 contact tracing research. Developed Python scripts to analyze pedestrian scenarios. Presented conclusions at WPI Summer Research Showcase.

Subject Tutor and Bootcamp Instructor   Jun. 2021 – Present
EduAvenues LLC | Virtual

Instructed 10+ students for 100+ hours in Algebra, AP Calculus BC, APCSA, and Python. Led a summer bootcamp and received positive feedback from students.

VOLUNTEERING

Verity Opportunities Ltd. | Northborough, MA   Oct. 2020 – Present

Organized 10+ successful food drives, math competitions, and trail cleanups to support local nonprofits and efforts.

New England Youth Chinese Summer Camp | Weston, MA   Aug. 2022
Fundraised over **$1,200 in donations** and **granted $10,000** to two local nonprofits through a selective process.

Youth in Philanthropy | Sudbury, MA   Sept. 2021 – Jan. 2022
Worked with a counselor and co-CIT at a one-week overnight camp to lead campers in cultural activities and watch over their safety.

PROJECTS

A Blind Spot Alert Apparatus for Cyclists | Mass Academy   Aug. 2022 – Present

Conducted original independent research on bicyclist detection devices using Tensorflow, Edge TPUs, and real-time testing.

RFID Sign-in/Sign-out System | Mass Academy   Oct. 2022 – Present
Developed an NFC sign-in/sign-out system using MySQL databases, Raspberry Pi, and React + Node JS web portal.

ACHIEVEMENTS / AWARDS

Tensorflow Developer Professional Certificate (Coursera)	December, 2022
Cyberpatriot National Youth Cyber Defense Competition - Platinum Division	December, 2022
Deep Learning Specialization Certificate (Coursera)	August, 2022
Massachusetts State Science Olympiad (Gravity Vehicle) - 2nd Place	March, 2022
Massachusetts Math League Level 2 Examination (MAML 2) Qualifier	February, 2022
American Invitational Mathematics Examination (AIME) Qualifier	January, 2022
Silver Rank in USA Coding Olympiad (USACO) Coding Competition	February, 2021
President's Volunteer Service Award - Gold; Daily Points of Light Award Recipient	2020, 2021, 2022

SKILLS

Skills: *Python, Java, Basic HTML/CSS + MySQL, Tensorflow, Computer Vision;* Languages: *English, Basic Chinese + Spanish*