

Alan Liang

(917) 607-8628 · alanl10ny@gmail.com

EDUCATION

Stuyvesant High School, New York, NY

September 2022 - June 2026

Regents Diploma expected June 2026; GPA: 96/100; SAT: 1540

Relevant Coursework: Computer Science, Robotics, Physics

Awards/Honors: Junior Academy Team of Distinction, Stuyvesant ARISTA, AP Scholar Award, Taekwondo 1st Dan Black Belt

ACTIVITIES

Stuyvesant Science Olympiad, Tech: Robot Tour Contributor, New York, NY

November 2024 - Present

- Design, build, and program the Robot Tour robot, with 5 peers for local and regional competitions.
- Work collaboratively with ~5 teammates to troubleshoot and optimize designs under competition time constraints.
- Attend weekly team meetings to refine engineering and technical skills and build my knowledge of the competition.

Junior Academy, Co-Team Leader, New York, NY

September 2024 - Present

- Engages in a project-based learning program where 1200+ students participate in innovation challenges annually in teams.
- Co-led a team of 6 students from all over the world, focused on developing communication and teamwork skills.
- Researches various aspects of machine learning including: data masking, federated learning, and data minimization.
- Develops a machine learning model that is able to detect crimes occurring in CCTV footage, such as shoplifting.
- Won Team of Distinction Award for the Ethical AI Competitions awarded to the top 10 finalist teams out of 296 teams.

Stuyvesant ARISTA (Stuyvesant's Honor Society), Web Development Committee Member, New York, NY

August 2024 - Present

- Collaborate with ~10 peers and applied web development skills to develop the new ARISTA website.
- Serve as tutor for Advanced Leadership class taught by Principal Seung C. Yu, overseeing 20+ students and helping them build skills in geometry, studying, time management, and other related areas.
- Volunteer for the Summer STEM Camp at Queens Botanical Garden, working with 30+ children in grades 3-5 and leading group activities in learning about plant life and taking care of plants

Stuyvesant Metis Project, Science Department Manager & K-9 Tutor, New York, NY

November 2023 - Present

- Engage in a program focused on supporting 10+ students myself in math and science throughout NYC in grades K-9.
- Encourage active engagement and participation through thorough preparation and motivating teaching style.
- Quickly learned how to respond to questions patiently, developing trust and fostering strong bonds with tutees.

Stuyvesant FIRST Robotics Competition (FRC) Team 694, New York, NY

October 2023 - Present

IT Lead Programmer, Software Engineering Student Mentor and Lead Contributor, FRC Student Ambassador

- Qualified for the FIRST Robotics Competition World Championships 2024; won Brunswick Eruption (2024), NYC Regionals (2024), and other competitions; finalists in additional competitions
- Program subsystems and autonomous routines for our robot used in competitions.
- Mentor 30+ students new to FRC, teaching them skills in Java.
- Conduct comprehensive scouting for competitions, including impact awards, pit, and match scouting.
- Conduct tours for spectators during competitions, such as spectators and competition sponsors; developed strong communication and public speaking skills through frequent communication during tours.
- Teach spectators and new members the key values of FIRST (Discovery, Innovation, Impact, Inclusion, Teamwork, and Fun) and about FIRST Robotics Leagues.

Stuyvesant Key Club, Fundraising Committee & New Projects Committee Member

September 2023 - Present

- Research NYC volunteering events/opportunities for Key Club, increasing engagement and participation significantly.
- Collaborate with peers in researching and managing 10+ biweekly fundraisers hosted by Key Club, raising over \$500 each.

Stuyvesant Red Cross, Volunteer, New York, NY

September 2022 - Present

- Support Red Cross efforts as a volunteer by aiding in community service events and projects.
- Staffed Hong Kong Dragon Boat Festival 2023, which had hundreds of spectators and participants; handled team registrations for each race and managed parking.
- Staffed Cupid's Chase 5K Queens, which had 50+ marathon runners; handed out medals and worked at aid stations.

Taekwondo @ CMA, Student Leader & Mentor, New York, NY

March 2016 - March 2023

- Earned my 1st degree black belt over a period of 5 years of dedication and effort.
- Competed in numerous local & state competitions, ranking 1st and 2nd in several; qualified for national competitions.
- Qualified and participated in the school's leadership program, teaching younger students martial arts skills.

SKILLS & INTERESTS

Software: Proficient in Java, Python, HTML, CSS; actively developing skills in JavaScript.

Languages: Proficient in Spanish, working knowledge of Cantonese.