ALISON SOONG
EECS Undergraduate Student @ MIT

✉ alisonsoong@gmail.com

📞 (415) 999-0760

📍 SF + Boston

in *alisonsoong*

🌐 *alisonsoong.com*

EDUCATION

MIT 2023-2027

Incoming Class of 2027

Plan to study Electrical Engineering and Computer Science

Crystal Springs Uplands School 2019-2023

GPA: 4.0 (unweighted), 4.21 (weighted) SAT 1600 (Oct 2021)

Distinguished Scholar Award (2023)

The Cum Laude Society (2022-Present)

Varsity Girls Soccer, Starting Midfielder (2019-2022); Skyline Division All-League Team, 1st Team Award (2020)

Graphic Design I Visual Arts Departmental Distinction Award (2021)

President, Girls Who Code Club (2021-2023); Founder/President, Computers, Linguistics, Applications, Programming (C.L.A.P.) Club (2021-2023); Vice-President, Women Driving Change Club (2021-2022); Book Club (2019-2023)

2x AIME Qualifier (2022, 2023); USA Computing Olympiad Silver Contestant (2020); National Merit Winner (2023); Candidate in the 2023 United States Presidential Scholars Program (2023); AP Scholar with Distinction (2022)

SKILLS

- Computer Science / Programming
  - Algorithms
  - Proficient in C++, Python, Java
  - Familiar with Swift, Objective C, HTML / CSS, JS (React)
  - iOS App Development (Xcode)
  - Version Control (git & GitHub)
  - Full Stack Development
- Scientific / Business Writing
- Collaboration / Teamwork
- Public Speaking / Communication
- Project Management
- Graphic Design (UI / UX)
- Rapid Prototyping / 3D Printing
- Machinery / Woodshop

WORK EXPERIENCE

Summer Science Program | Astrophysics Student Researcher
Jun – Aug 2022

Participant in astrophysics research @ CU Boulder; coded program to determine the orbit of a near-earth asteroid; wrote paper; results published by the Minor Planet Center of the International Astronomical Union; presented results to the Southwest Research Institute

NASA SEES | Emergency Preparedness Research Intern
May – Dec 2021

Selective internship with NASA & The Texas Space Grant Consortium; first author of published abstract presented at American Geophysical Union 2021 Fall Conference & NASA SEES Science Symposium; 1 of 10 students on the emergency preparedness team; programmed a California wildfire vulnerability map and algorithm using Python; analyzed remote sensing data/NASA satellite imagery using Google Earth Engine

Robotics, FRC 1868 Space Cookies | Software/Controls Captain
2019 – 2023

Team captain, led software team of 15+ girls (2022 - 2023), represented team in interviews with technical judges, oversaw all software development, programmed competition & outreach robots with C++, created/taught workshops; FIRST Robotics Dean's List Finalist (2022); Programming Director (2020 - 2022); 2x Qualified for FIRST World Championships (2022, 2023), top 1% of teams for auto EPA (2023), Innovation in Control Award (2023), Semifinalists at Championship Curie Division, Silicon Valley Regional, Canadian Pacific Regional + Finalists at Arizona West Regional (2023)

Catapult Homes | iOS App Developer
Dec 2020 – Mar 2021

App developer for Catapult Homes, a Bay Area startup in real estate; worked closely with startup founders to streamline information exchange (pictures, client information) between real estate agents and potential home sellers; developed the minimum viable product (used for initial operations)

PROJECTS & COMMUNITY

The Mask Genius
2020

Programmed and published *The Mask Genius*, an iOS app about the effectiveness of masks against airborne viruses; published for public download through San Mateo County Health; included in the SF Bay Area Crushing the Curve Campaign (joint SF Bay Area gov't campaign, >5 counties) to promote health and safety during the pandemic

Girl Scouts STEM Outreach
2019 – 2023

Girl Scout since 1st grade, worked to inspire young Girl Scouts about engineering & robotics; led robotics/engineering badge workshops for Girl Scouts ages 5-11; programmed, showcased, and demoed outreach robots; invited as speaker at multiple workshops for prospective Girl Scouts in Northern California (2021); led remote electrical engineering workshop for Girl Scouts from grades K-5 at Girl Scout Camporee (2021)

Periodic(ally), Visualize Menstrual Equity & Period Product Access
2023

Created an initiative and developed a mobile app to shed light on menstrual equity and period poverty; integrated NFC technology to demonstrate period product accessibility; ongoing project, currently building up program and creating pitch

OTHER AWARDS

NCWIT 2x National Honorable Mention (2022, 2023) & Winner for the Bay Area Affiliate of the NCWIT Aspirations in Computing Award (2022); Scholastic Art & Writing Awards Silver Key and Honorable Mention for photography (2021); Peninsula Photo Contest First Place Youth Moments + 2 Honorable Mentions, exhibited at Palo Alto Art Center (2020)