

Madeline Grace McLaughlin – CV

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Education

Jul-Aug 2017 Pre-College Program - Harvard University, Cambridge

Took two classes over four weeks at Harvard University in both epidemiology—working in R—and an intro computer science class—working in C.

Jul 2018 Pre-College Program - Cornell University, Ithaca

Took a two-week Cornell University course combining artificial intelligence and C++ to build and program a drivable robot.

2015 - 2019 Pittsford Mendon High School - Pittsford, NY

Graduated in 2019 with a straight A average and as a member of the National Honor Society.

2019 -2023 Tufts University - Medford-Somerville, MA

Computer Science major with a concentration in Cyber Security, Class of 2023. Dean's list from Fall 2019-Fall 2020 with a current GPA of 3.7.

Employment History

2014 - 2019 Pittsford, NY
Babysitter/Nanny

Responsible for supervising up to three children from ages 1-14. Played, prepared meals, and helped them with bedtime and nannied during the summer five days a week.

Research Experience

Sep 2020 - May 2021 Racial Equity and Diversity (RED) Lab at Tufts University
Research Assistant

Volunteered as a research assistant in a psychology lab at Tufts that explored dehumanization, implicit bias, and excessive use of force in policing as it pertains to race and the implications this has on the US legal team. This involved using data analysis tools such as SSPS, R, and Jasp and conducting literature reviews. .

Technologies: Qualtrics, IRB Review Protocol, JASP, SSPS, and R.

Feb 2020 - Present Tufts Security and Privacy Lab (TSP)
Research Assistant

Research assistant in the Tufts Security and Privacy lab with Professor Dan Votipka through the computer science department working on qualitative analysis of reverse engineering frameworks such as Binary Ninja and Ghidra. .

Technologies: Binary Ninja, Ghidra, Assembly language, Python, qualitative coding.

Extracurricular Activities

Sep 2015 - GirlUp Club at Pittsford Mendon High School
May 2019 *Senior Developer / Technical Team Lead*

Member from September 2015 – June 2017 and president of Mendon's club from September 2017 to May 2018; this group promotes and raises awareness of issues that women face both globally and in the Rochester community. .

Nov 2018 - Pittsford Panthers First Robotics Team (FRC)
April 2019 *Member*

Worked on the programming portion of the team's robot in C++ for the First Robotics Regional Competition.

Sep 2019 - JumboSec at Tufts
Present *E-board member Fall 2020 - present*

Participated in the Tufts JumboSec club that promotes cyber security and policy knowledge and awareness in the Tufts community, as well as participated in Tufts' undergraduate team at Atlantic Council's Fall 2020 Cyber 9/12 Competition in New York. E-board member responsible for communications/outreach Fall 2020 to present.

Sep 2019 - Humanist Club at Tufts
Present *Member*

Participated in the Humanist Club at Tufts University, a part of the Interfaith center at Tufts.

Feb 2021 - MassCyberCenter's Cybersecurity Mentorship Program
Present *Mentee*

Participated as a mentee in this program which gives students studying computer science and cybersecurity a way to work on a policy-driven, semester-long project, in this case I'm working on creating a cyber incident response plan for a hospital or other mid-sized healthcare facility.

Volunteering and Leadership

Sept 2015 - Pittsford, NY
2019 *TIES Volunteer (Together Including Every Student)*

Helped with a games group for students with disabilities at Mendon High School to promote a sense of belonging and community among students with and without disabilities.

Sept 2017 - Rochester, NY
May 2019 *Gigi's Playhouse Volunteer*

Lead and helped with multiple programs for individuals with Down syndrome to help them reach their fullest potential through activities that enable socialization with friends and peers, tutoring, and practical life skills.

- Sept 2019 -** Bright Horizons Daycare Center at Teele Square, Somerville, MA
Mar 2020 *Junior Jumbos Volunteer*
Volunteered weekly at the Bright Horizons daycare center in Teele Square with 2 and 3 year olds as a role model to help the kids with social skills and playtime.
- Feb 2021 -** Ears for Peers Volunteer
Present *Junior Jumbos Volunteer*
Volunteered at an anonymous crisis text/call line for Tufts University undergraduate and graduate students to be able to reach out to when they're overwhelmed or need someone to talk to.

Software Engineering/CS Specific Skills

- **Programming Languages**

C++
C
Python
R

- **Web Development**

Proficiency in HTML5, CSS, JavaScript, NodeJS, PHP

- **Miscellaneous**

Proficient in assembly language Proficient in Binary Ninja and Ghidra RE frameworks

Interests

- **Running, Tennis, Sailing**
- **Reading**
- **Watercolor**