

Madeleine Ng

madelein@andrew.cmu.edu | (412)-614-9525

EDUCATION

Carnegie Mellon University

B.S. in Information Systems (3.79 GPA)

Pittsburgh, PA

May 2028

Oakland Catholic High School

High School Diploma (4.88 GPA)

Pittsburgh, PA

June 2024

- National Honor Society (2022-2024), Joan of Arc Society of Scholars (2020-2024), Jean Ann Streiff Writing Award, Senior Art Award, Principal's Scholarship Recipient (2020)

SKILLS

Marketing & Design: Graphic design (Canva), social media marketing, writing scripts, photography, photo/video editing, audio recording/editing

Programming & Technical Skills: JavaScript (p5.js library), Python (pandas, tkinter, matplotlib library)

Relevant Coursework: Fundamentals of Programming and Computer Science, Design Fundamentals: Shaping Interactions and Experiences

EXTRACURRICULAR ACTIVITIES

Girls Who Code - Self Paced / Summer Immersion Program

- Machine Learning Track Certification (August 2024) - built decision trees and trained models to predict heart disease; developed neural networks to identify ASL letters from images
- Data Science and AI Track Certification (December 2023) - used Python to analyze higher education data in India, uncovering insights on gender equality and social justice issues
- Game Design Track Certification (August 2023) - developed a choose-your-own-adventure game with graphics using Javascript

National Girls Collaborative Project (NCCP)

- Youth Advisory Board Co-Chair (February 2023 - August 2024): collaborated with Board Leader to set engagement goals for social platforms and developed meeting agendas
- NGCP Governance Committee Member on NGCP Advisory Board (December 2023-Present)

RELEVANT EXPERIENCE

Saturday Light Brigade Radio

Pittsburgh, PA

- Youth Advisory Council Member (June 2023 - 2024): communicated with Community Engagement Coordinator to share open studio events on social platforms

Pittsburgh Youth Media Corps Intern (Paid)

January 2023 - June 2024

- Social Justice Documentary Intern - conducted research and hosted interviews with Penn State professors; completed three-part audio documentary about inequalities in STEM education

Carnegie Science Center

Pittsburgh, PA

Launch Your Future Intern (Paid)

April - June 2023

- Created promotional materials and presentations about space industry career opportunities for target age groups in Pittsburgh

Girls of Steel Robotics Program - Carnegie Mellon University

Pittsburgh, PA

Mentor of K-8 FIRST Lego League

January 2019 - June 2023

- troubleshoot code and review teams' sustainability project presentations
- Outreach: represented Girls of Steel as part of Pittsburgh mayor's tour of Carnegie Mellon, gave demo for building robot chassis at Carnegie Science Center's "You Rock Science" event

HONORS & AWARDS

CGI IT Girls Challenge App Competition Rising Star (2024), Scholastic Writing Awards National Gold Medal and National American Voices Award for Journalism (2024), NCWIT Aspirations in Computing Western PA Affiliate Award Winner (2023), Pittsburgh Technology Council Student Pitch Competition 3rd Place Award for Most Innovative Design (2023)