

Education

- **Carnegie Mellon University** Pittsburgh, PA
B.Sc. Chemistry, Additional Major in Computer Science May 2022
 - Relevant courses: Principles of Imperative Computation, Concepts of Mathematics, Matrices and Linear Transformations, Great Ideas in Theoretical Computer Science, Probability

Work Experience

- **UPMC Enterprises** Pittsburgh, PA
Software Engineering Summer Associate starting June 2020
 - Will work on projects with portfolio companies focused on directly improving patient care
- **Carnegie Mellon University School of Computer Science** Pittsburgh, PA
Lead Teaching Assistant (15-122: Principles of Imperative Computation) starting August 2020
 - Will manage course logistics and infrastructure in order to ensure the course runs smoothly
 - Will coordinate a team of 30+ teaching assistants and onboard new teaching assistants
- **Carnegie Mellon University School of Computer Science** Pittsburgh, PA
Teaching Assistant (15-122: Principles of Imperative Computation) August 2019 — present
 - Assists in teaching code correctness, data structures, and algorithms to over 500 students
 - Leads labs and recitations, facilitating a collaborative environment for student learning
 - Guides student understanding of concepts and assignments one-on-one during office hours
- **ExpII, Inc.** Pittsburgh, PA
Content Writing Intern (Mathematics) September 2018 — May 2019
 - Created and moderated educational content targeted towards high school students
 - Authored engaging problems, solutions, and explanations for topics in algebra and geometry
 - Assisted in creation of mathematics curricula based upon existing pedagogical research

Projects

- **Personal Website** 2020
 - Created responsive design using Bootstrap Studio, then fine-tuned the HTML and CSS
 - Deployed to GitHub Pages through a custom domain; secured using Comodo PositiveSSL
- **FoodMood** 2020
 - Web application built for the final round of Capital One's Software Engineering Summit
 - Utilized Bootstrap, Esri's ArcGIS API, HTML5 Geolocation, and the Yelp API
- **Cleversign: A Real-Time American Sign Language Interpreter** 2018
 - Built a classifier that outputs English letters given visual webcam input of ASL hand signs
 - Retrained Google's Inception-V3 convolutional neural network (CNN) using TensorFlow
 - Utilized OpenCV for image preprocessing, i.e. isolating shape of the hand in each frame

Leadership

- **Scotch'n'Soda Theatre** Pittsburgh, PA
Secretary (Board of Directors) May 2019 — May 2020
 - Oversaw production of six to seven shows per academic year by over 200 active members
 - Communicated key events and information to general membership weekly through emails
 - Connected with members of current productions to proactively identify and remedy conflicts

Skills

- **Coding**: C, Java, Python, Mathematica, \LaTeX , HTML/CSS, Javascript
- **Language**: Fluent in English and Chinese, conversant in Spanish
- **Other**: polymer chemistry research, collaborative piano, photography, digital media editing