

# Lydia Xing

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## EDUCATION

### **Carnegie Mellon School of Computer Science**

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Pittsburgh, PA

Expected May 2022

## SKILLS

**Proficient:** Javascript/ES6, Python, Java, React, Express, Mongoose, jQuery, AJAX, Node, Git, CSS

**Some experience with:** React Native, AngularJS, Android Studio, Arduino

## EXPERIENCE

### **Horizons School of Technology**

SUMMER IMMERSIVE PROGRAM STUDENT, FULL SCHOLARSHIP RECIPIENT

San Francisco, CA

Jun 2018 - Aug 2018

- Learned and applied full-stack web development skills including web security, deployment, and principles of scaling through hands-on exercises and projects

### **MIT Beaver Works RACECAR**

STUDENT

Cambridge, MA

Jul 2017 - Aug 2017

- Used ROS and OpenCV to implement various control systems such as PID, pure pursuit, and local/global potential field controllers on miniature autonomous cars in Python

## ACTIVITIES/INTERESTS

### **CubeRover**

FLIGHT SOFTWARE TEAM MEMBER

Pittsburgh, PA

Sep 2018 - Present

- Part of flight software team of 2-kg lunar rover which will be sent to the moon in 2020
- Gaining familiarity with F-Prime, FreeRTOS and experience with C++

### **Carnegie Mellon Racing**

ENERGETICS TEAM MEMBER

Pittsburgh, PA

Sep 2018 - Present

- Collaborating with another junior team member to implement regenerative braking on an electric racecar's firmware in C

### **FIRST Robotics Team 125 - NUTRONS**

STUDENT PROGRAMMING LEAD, ROBOT OPERATOR, CHAIRMAN'S PRESENTER

Boston, MA

Sep 2015 - Feb 2018

- Division champions at St. Louis World Championship 2017, finished 4th overall at St. Louis World Championship 2017
- Implemented PID controllers for self-correcting driving and used OpenCV for autonomous computer vision targeting

### **MetroHacks**

CO-SPONSORSHIP DIRECTOR

Boston, MA

Sep 2017 - Jun 2018

- Managed budgeting and branding for largest high school hackathon in New England
- Secured sponsorship from Quantopian and Twilio

## PROJECTS

### **Carnegie Cupid** - HACKCMU GSK CATEGORY 1<sup>ST</sup> PLACE, TEAM PROJECT

- Web app using real-time sentiment analysis on voice-to-text transcript and webcam machine learning to determine if your date is interested in you. Worked on API integration, voice-to-text transcription, and frontend
- Used Microsoft's Custom Vision AI and Text Analysis API, Google Web Speech API

### **Online Vision Therapy** - HORIZONS HACKATHON HONORABLE MENTION, INDIVIDUAL PROJECT

- Used Webgazer.js to track eyes/provide real-time feedback and CSS animations to create eye exercises such as saccades, pursuits, etc.

## AWARDS

National Center for Women in Technology MA, Society of Women Engineers High Honors, 2017-2018  
SpaceX FIRST Alumni Scholarship, Raytheon FIRST Scholarship, FRC Rhode Island District Dean's List