Lydia Xing

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EDUCATION

Carnegie Mellon School of Computer Science   *Pittsburgh, PA*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *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   *San Francisco, CA*
SUMMER IMMERSIVE PROGRAM STUDENT, FULL SCHOLARSHIP RECIPIENT   *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   *Cambridge, MA*
STUDENT   *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

Brookline Lego Robotics Program   *Brookline, MA*
FOUNDER, DIRECTOR   *Jun 2016 - Jun 2018*

- Founded two FIRST Lego League teams, serving 20 middle school students
- Secured space, recruited and trained instructors, designed curriculum and daily agendas, ran pilot summer workshop and raised funds

ACTIVITIES/INTERESTS

FIRST Robotics Team 125 - NUTRONS   *Boston, MA*
STUDENT PROGRAMMING LEAD, ROBOT OPERATOR, CHAIRMAN'S PRESENTER   *Sep 2015 - Feb 2018*

- Division champions at St. Louis World Championship 2017, finished 4th overall at St. Louis World Championship 2017
- Developed Android trajectory app, winning team Innovation in Control Award at a regional event
- Implemented PID controllers for self-correcting driving
- Used OpenCV for autonomous computer vision targeting

MetroHacks   *Boston, MA*
CO-SPONSORSHIP DIRECTOR   *Sep 2017 - Jun 2018*

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

PROJECTS

Pavlov

- Web app helping users break bad screen habits, such as nail biting, by monitoring users through webcam and playing audio alert if a bad habit is detected
- Used Microsoft's Custom Vision AI API

Online Vision Therapy

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

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