

## Objective

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To obtain a professional internship in a technical field to advance my skills through experiential learning.

## Experience

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### Peer Tutor

*Academic Development, Carnegie Mellon University*  
February 2014 – present

- » Practices leadership and communication skills by assisting peers with academic challenges
- » Improves ability to explain abstract problem solving strategies.

### Physics Outreach Mentor

*Physics Department, Carnegie Mellon University*  
September 2014 – February 2015

- » Strengthens communication and leadership skills by mentoring 7th grade students from Colfax Elementary and teaches fundamental scientific concepts and experimental procedure.

## Projects

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### Touch Calculator

*Fundamentals of Programming and Computer Science*  
May 2015

- » Machine learning driven touchpad-drawing input.
- » Designed and implemented an original feature detection algorithm based on n-dimensional vector addition.
- » ~90% recognition rate for 32 characters using K-Nearest-Neighbors with <500 total training instances.
- » Written in Python with a Tkinter GUI and packaged for standalone use in Mac OS X.
- » Video demonstration: <https://youtu.be/9xGWnnozi-M>

### Scotty Sports

*February 2015*

- » iOS application for CMU students that allows users to organize pickup games in sports and activities.
- » Integrated the Facebook Login API
- » Used Parse to manage a database.
- » Worked in a 4-person team at Tartan Hacks 2015 to build the app from the ground up.

## Education

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### Carnegie Mellon University

*May 2018, Pittsburgh PA*

- » Bachelor of Science in Physics, 4.0 GPA
- » Dean's list, High Honors – Fall 2015

### Millburn Senior High School

*June 2014, Millburn NJ*

- » Diploma with High Honors, 4.37/4.46 GPA
- » National AP Scholar
- » AP Scholar with Distinction
- » National Merit Commended Scholar

## Skills

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### Languages

- » Python

### Technologies

- » Git
- » Xcode
- » LaTeX
- » Arduino
- » Adobe Creative Suite

## Relevant Coursework

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- » Principles of Computing
- » Concepts of Mathematics
- » Communication Design Fundamentals

## Activities

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### Society of Asian Scientists and Engineers

*January 2015 – present*

- » Member – campus connections committee

### Men's Ultimate Frisbee

*September 2014 – March 2015*

- » Freshman Captain and member

### Make A Wish Foundation

*September 2013 – June 2014*

- » VP of Communications, Millburn HS