

# KEIFFER ACOPA

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## EDUCATION

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**Carnegie Mellon University - School of Computer Science**

B.S. in Computer Science, expected May 2022

*August 2018 - Present*

Cumulative GPA: 3.78

### Relevant Classes

Computer Systems (15-213) · AI: Representation and Problem Solving (15-281)

Parallel and Sequential Algorithms (15-210) · Intro to Machine Learning (10-315)

### Academic Achievements

Dean's List (2 Semesters)

High School Salutatorian

Regeneron Science Talent Search Top 300 National Scholar

## PROJECTS

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### PointMe - 2nd Place Winner

*HackCMU 2019 Hackathon*

Worked on the main algorithm of the project in Python that would read a C file and determine the values of variables in the stack and heap before displaying them in a graphical interface.

### TartanEats - Mobile Development

*TartanHacks 2019 Hackathon*

Developed an Android mobile application in Android Studio using the Google Maps API and Google Firebase platform to create an exchange service for university dining blocks.

### Computer Science/Particle Physics Research

*May - Sept. 2017*

Investigated and displayed inefficiency in current harmonic polylogarithm algorithms used in particle physics before developing a program in C++ and Python that improves this.

### Cryptography Research

*Oct. 2016 - Feb. 2017*

Analyzed AES runtime efficiency using varying keylengths, observing the security-time tradeoff.

Results found that state-of-the-art encryption keys still continued to be too inefficient for home use.

## TECHNICAL STRENGTHS

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### Programming Languages

Java, C, C++, Python, Standard ML, Matlab, HTML, CSS, JavaScript

## WORK EXPERIENCE

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### Mathnasium of Commack Tutor

*December 2016-Present*

Part-time tutor who instructed both K-12 and college students in the math skills necessary to succeed.

## EXTRA-CURRICULAR

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**ScottyLabs Head of the Content Committee** - Responsible for curating content for the various ScottyLabs events such as out weekend Hack Sessions, Web Dev Weekend, and TartanHacks.

**Robotics Head Programmer** - Main Java programmer and tutor of the high school robotics team.

**Independent Science Research Vice President** - Instructed students in the high school research class.

## EXTERNAL LINKS

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**LinkedIn:** <https://linkedin.com/in/keiffer-acoba-90426416b>

**Github:** <https://github.com/keiffer01>