

# JASON MA

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<http://jason.ma>

## EDUCATION

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### Carnegie Mellon University

- Bachelor of Computer Science and Arts. Expected Class of 2019. GPA: 3.8
- Undergraduate Coursework: Principles of Imperative Computation, Functional Programming, Fundamentals of Programming and Computer Science, Concepts of Mathematics

## EMPLOYMENT

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### 15-112 Course Assistant

### Carnegie Mellon University School of Computer Science

January 2016-Present

- Organized, led, and taught a 30 person recitation in fundamentals of Python and computer science.
- Held personal office hours, private tutoring, and review sessions for students.
- Evaluated homework, tests, and field work to ensure students understood course concepts.

## TECHNICAL EXPERIENCE

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### Projects

- **Arduino-copter:** Created an autonomous hovering quadcopter with low level functions being run by an Arduino and higher level functions computed by a Raspberry Pi. Project included aspects of control theory and embedded systems.
- **PyCopter:** Studied basic implementations of embedded systems, server client interaction, and principles of electrical engineering. Built and coded a quadcopter controlled by a Raspberry Pi, which then communicated with a laptop via Python Sockets for easier user interaction. Created a virtual simulation of the quadcopter using Panda 3D, a python 3D game engine. Placed top 12 out of 600 students in the course for the overall project.
- **P5.JS:** Implemented a series of javascript projects using the P5.JS library, a java script library containing modules and tools geared towards artist programmers. Created several small sketch projects, such as analyzing flocking behavior, incorporating facial recognition masks, and visualizing sound.

## ADDITIONAL EXPERIENCE AND AWARDS

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- **15-112 Term Project Winner:** Won top 12 overall out of 600 students in a programming course at Carnegie Mellon. Presented and demoed the project in front of students and faculty.
- **Carnegie Mellon University High School Ambassador:** Spoke with current high school seniors about Carnegie Mellon's admission, and gave some personal insight on campus life.
- **Dean's List Fall 2015:** Recognized for Academic excellence in the 2015 Fall Semester.

### Languages and Skills

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- Proficient: Python, HTML, CSS
- Currently learning: SML, C
- Prior experience but rusty: Java, Javascript