JASON MA

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EDUCATION

Carnegie Mellon University

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

EMPLOYMENT

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

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

- **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

- Proficient: Python, HTML, CSS
- Prior experience but rusty: Java, Javascript