Jessica Ng

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EDUCATION

Macaulay Honors College at Hunter College   GPA: 3.9
Bachelor of Arts in Computer Science and Chinese, minor in Mathematics, expected 2019

Relevant Courses: Software Analysis and Design | Discrete Structures | Computer Architecture | Calculus | Computer Theory | Embedded Systems | Android App Development | Matrix Algebra | Chinese

Honors: Full merit scholarship to Macaulay Honors College (4 years)
3rd Year Student in the Chinese Flagship Program

Stuyvesant High School, New York, NY   GPA: 3.9
Relevant Courses: Software Development | Graphics Programming | System-level Programming
Honors: 2014 Technology, Culture, and Society High School Competition (NYU Poly), finalist

COMPUTER KNOWLEDGE

Languages: Python | Scheme | Java | C | C++ | SQL | HTML/CSS | Processing
Libraries: Flask | MongoDB | MySQL
Software: Git | Emacs | Xcode | Microsoft Office | iWork | Adobe Lightroom
Systems: Mac OS | Ubuntu Linux

PROJECTS *(https://github.com/SingleDreamer)*

- Simon Says Puzzle Box, a physical hardware device using an Arduino to implement a Simon Says lock
- Anathema, a full stack web application that uses Flask web framework, MongoDB and Google Maps API integration to keep track of player locations to implement the game Assassin
- Websites and web applications hosted using DigtalOcean
- Augmented Reality Board Game / Maze-Solver: using Processing to use edge detection and machine vision techniques on camera input, then applying a maze-solving algorithm

EXPERIENCE

***Teaching Assistant,* Hunter College**, New York, NY, September 2017 – Present

- Assisted teacher in Software Analysis and Design II by creating and grading college-level coding assignments and exams
- Provided one on one assistance for students requiring additional code review

***Volunteer*, Bill de Blasio for Mayor**, New York, NY, September 2017

- Worked as a phone banker, calling registered voters to confirm participation
- Discussed shared immigrant histories with other volunteers to better relate to the constituency

***Volunteer,* Hunter College**, New York, NY, September 2016 – Present

- Analyzed and generated Chinese vocabulary lists using a self-written program
- As treasurer and one of the first members of the Chinese Flagship Student Association, I helped coordinate culture and fundraising events to raise over $1000 for scholarships for our Capstone students

***Teaching Assistant,* CSTUY**, New York, NY, June 2014 – May 2015

- Mentored high school students on the use of Processing
- Taught basic skills on developing websites with Python, Flask, and HTML/CSS
- Worked with fellow TAs on creating an augmented reality maze-solving program/game

LANGUAGES: Conversational Cantonese | Intermediate Mandarin