Jonathan Wu

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Education:

State University of New York at Binghamton   **May 2020**
Bachelor of Science in Computer Science   Cumulative GPA 3.3/4.0
Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems, Linear Algebra, Automata Theory and Formal Languages, Number Systems, Probability and Statistics, Computer Networks, Design Patterns, Intro to Visual Processing, Programming Languages

Technical Skills:

Languages: Java, C++, Python, C
Technologies: Linux, Git, Windows, Vim, Apache Ant, Visual Studio, Qt Creator, Arduino, HTML, CSS

Projects:

Flash Card Application   **May 2018**
- Wrote an application in Qt Creator and C++ that simplifies the process for learning Mandarin by storing relevant information in flash cards.
- Created quizzes that recorded user information and statistics and assisted the user with reinforcement learning

IEEE Mars Rover   **October 2017 - May 2019**
- Integrated hardware sensors with Arduino and C++ to send environmental information through the network, slashing time for information reading by 30%
- Reduced calculated bandwidth and round trip delay time between the rover and the base station
- Collaborated with the software team to use OpenCV and ROS to help the rover navigate autonomously and detect objects

Pippin Assembly Project   **October 2017 - December 2017**
- Implemented Pippin assembler in Java to compile and simulate assembly files, displaying memory content in GUI
- Met specifications using JUnit testing

Exploding Kittens   **May 2017**
- Initiated the design of a card game application with three other computer science majors
- Used JSON for data permanence and managed project using Git for version control

Leadership:

Physics Teaching Assistant - Binghamton University   **January 2019 - May 2019**
- Organized laboratory demonstrations and administered quizzes for a class of 25 college students
- Updated students with feedback on assignments and quizzes

Teacher's Assistant and Tutor - TAG Academy   **January 2014 - August 2016**
- Mentored students in multiple age groups in various English and Mathematics subjects in an afterschool program
- Enhanced students' grades for standardized tests like the SAT by 20% through focusing on weak points in their performances