

# Jonathan Wu

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## Education:

**State University of New York at Binghamton**

Bachelor of Science in Computer Science

**May 2020**

Cumulative GPA 3.3/4.0

## Technical Skills:

**Languages:** Java, C++, Python, C, HTML, CSS, JavaScript

**Technologies:** Linux, Git, Windows, Vim, Node.js, MongoDB, Visual Studio, Qt Creator, Arduino

## Projects:

### ClickMe

**May 2020**

- Designed a web application with Node.js and Javascript that tracks user clicks on a button.
- Deployed a MongoDB cluster to store click information, allowing for multiple users across different mediums of connection to increment the click count globally.

### Flash-Quiz

**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