

# Jared P. Miller

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## EDUCATION

### The State University of New York at Buffalo

Expected Dec 2019

*Bachelor of Science (BS): Computer Science*

- ❖ Elective Coursework: Thermodynamics, Introduction to Aerospace Engineering Practice, Engineering Computations

### Rockland County Community College, The State University of New York

Dec 2012

*Associate of Arts (AA): Liberal Arts and Science: Mathematics and Science*

## WORK EXPERIENCE

### Full Stack Web Developer

Jan 2019 – Present

*University at Buffalo Center for Industrial Effectiveness (TCIE)*

- ❖ Developing a password protected admin page to manage remote modules. Front end designed with HTML, Bootstrap, CSS, and JavaScript. Back end implemented on a Flask server with a MongoDB database
- ❖ Server receives regular status updates and data requests from modules, and responds with unique and necessary information to each request individually

### Technology Intern

May 2018 – Aug 2018

*Aquasol Corporation*

- ❖ Worked directly with engineering team on patented product to debug and improve software written in C
- ❖ Wrote Java program to optimize and automate the sales team customer contact method, increasing quantity and rate of customer interactions
- ❖ Managed and maintained company's essential server and IT facilities for day-to-day operations

### Undergraduate Teaching Assistant – Introduction to Computer Science (CSE 115)

Jan 2018 – Dec 2018

*University at Buffalo*

- ❖ Led two weekly lab recitations to supervise and aid students in lab work comprehension by answering questions and debugging code
- ❖ Led four weekly sections of office hours to mentor students in a one-on-one setting through course learning objectives in Java, Python, and JavaScript

## PROJECTS

### Pub-Sub Web Application

Dec 2018

- ❖ Dockerized web application that allows users to either publish or subscribe to multiple topics
- ❖ Subscribers are notified when new information has been published to relevant topics

### Dockerized Python IDE

Oct 2018 – Nov 2018

- ❖ Utilized POST requests to send user's python code from the front end of a web application to a Flask server
- ❖ Code is placed into a Docker Container and interpreted, and the output is sent back and displayed on the front end

### My Waypoints

Sept 2018 – Oct 2018

- ❖ Implemented distributed system using a WAMP stack where users input a start and destination location for a road trip
- ❖ Utilizes Google Maps APIs to obtain navigation information, including the user's travel route and weather conditions
- ❖ Travel route is visualized on a Google Map, along with five clickable waypoint markers that contain each location's current climate information

### Medical Block

April 2018

- ❖ Member of team tasked with development of application to send clients' medical information to smart contract implemented in Solidity
- ❖ Smart contract transmitted over Blockchain, returning privacy and power to medical patients by withholding sensitive information from manufacturer and insurance companies
- ❖ Ensured information was properly sent through Remix using Solidity, JavaScript, jQuery, and HTML

## EXTRA CURRICULAR ACTIVITIES

### Blockchain Buildathon

April 2018

- ❖ Participated in Blockchain hackathon to brainstorm and implement innovative methods using Blockchain technology to help solve local and global challenges

### UB Hacking

Oct 2017

- ❖ Designed game board for a two-dimensional video game in which user defeats waves of enemy sprites

### Member of UB ACM (Association for Computing Machinery)

Oct 2017 – Present

- ❖ Participate in various workshops, including interview preparation and technology seminars