

Jared P. Miller

jpmiller@buffalo.edu | (845) 988-6853 | <https://www.linkedin.com/in/jaredpmiller> | <https://jaredpaul.github.io>

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

Software Engineer Intern

May 2019 – Present

CUBRC

- ❖ Worked on the Data Science and Information Fusion team, addressing critical problems facing our Defense, Intelligence, and Homeland Security communities
- ❖ Leveraged cron jobs to automate data ingestion. Used jsoup to scrape online data that is written to Kafka and represented as a set of SPARQL queries in an RDF store
- ❖ Used Maven to build and manage dependencies, along with Spring Framework for dependency injection
- ❖ Developed a NiFi flow that writes simulated mission data to a PostgreSQL database

Full Stack Web Developer

Jan 2019 – June 2019

University at Buffalo Center for Industrial Effectiveness (TCIE)

- ❖ Developed a password protected admin page for business owner to manage remote units in Buffalo area. Front end designed with HTML, Bootstrap, CSS, and JavaScript. Back end implemented on a Flask server with a central database
- ❖ Server receives regular status updates and data requests from units, and responds with necessary information and updates 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

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

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

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