

# Aiden Cullo

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## EDUCATION

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### State University of New York at Binghamton

Bachelor of Science Computer Science and Applied Physics Expected May 2019

Cumulative GPA: 3.76/4.0; Major GPA: 3.76/4.0

Dean's list • Upsilon Pi Epsilon CS Honor Society • Phi Eta Sigma Honor Society

## TECHNICAL SKILLS

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- **Relevant Coursework:** DataStructures, Programming with Objects, Machine Organization, Computer Systems, Architecture and Programming, Integral Calculus, Multivariable Calculus, Operating Systems, Differential Equations, Number Systems
- **Programming Languages:** Java, C, C++, Python, Javascript, SQL, L<sup>A</sup>T<sub>E</sub>X, and OpenMP
- **Technologies:** Linux, Git, Arduino, Docker, and Vim

## RELEVANT EXPERIENCE

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**National Aeronautics and Space Administration** Mountain View, CA *Prognostics Software Intern* June 2017 - Present

- Designing and developing a library to represent and manipulate data values with uncertainty in **C++** and **MATLAB**
- Implementing sampling, resampling, fitting, and calculation methods for random variable datatypes
- Writing driver to deploy general prognostics software in parallelized containers using Docker Binghamton Department of Physics, Applied Physics, and Astronomy

**Binghamton University** Binghamton, NY *Research Assistant* August 2016 - Present

- Write software for evolutionary machine learning algorithm to find most stable atomic configuration
- Debug and parallelize **C** code using multithreading with **OpenMP**

**Cornell Personal Robotics Assitants Laboratory** Ithaca, NY *Research Intern* May 2016 - August 2016

- Developed algorithm in **C++** and **ROS** for robot to visually identify properties of an object (shape, texture, etc.)
- Wrote data marshalling software in **Python** to communicate information between distributed components
- Coordinated with other team members to modify software in order to smoothly integrate into larger project

## LEADERSHIP

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### **Hack BU**

#### *Internal Hackathon Coordinator*

- Help organize and run Binghamton's annual hackathon with 300+ participants and volunteers
- Communicate with other hackathon organizers, sponsors, and school administrators
- Mentor and teach student hackers at weekly meetings and club sponsored events Binghamton Robotics Club

### **BU Robotics President**

- Coordinate teams to participate in inter-club design competitions and the Spaceport America Cup
- Organize demonstrations, group projects and collaborative events with other clubs
- Educate graduate/undergraduate members on concepts related to physics, computer science, and robotics

## PROJECTS

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