

**Education:**

Boston University, Expected Joint BA/MS in 2019

Major in Computer Science

GPA: 3.95 (4.0 Departmental GPA)

Barnstable High School Graduate, 2015

GPA: 4.77 (Valedictorian)

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**Relevant Work Experience:**

Course Assistant and Grader for CS237: Probability in Computing: September 2016 – December 2016

- Answered questions about homework assignments, practice problems, and general course topics, both online and in office hours. Also graded written assignments and students' code.

IT Intern at IFAW: June 2013 - September 2014

- Troubleshoot issues with computers, wrote automation scripts and programs to speed up common tasks, created instructional material to aid users in working around common issues.
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**Skills:**

- Programming experience in Python, C, IA-32/IA-64 assembly, C#, Java, ATS, HTML5, JavaScript
  - Experience with various operating systems such as Windows (including use of the Windows API) and Linux (including programming against POSIX interfaces)
  - Experience in cyber security (mostly web security, binary security, and cryptography), finding bugs and vulnerabilities in code, and writing secure code.
  - Relevant classes taken include: Data Structures, Computer Systems, Advanced Software Systems and Software Engineering. Current courses include: Algorithms, Network Security, and Operating Systems.
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**Recent Projects:**

- Won the "Hack Harassment" category at Hack Harvard with a Flask web app that utilizes the Twitter API, and various sentiment analysis tools to detect inflammatory tweets, and block the offending users.
  - Developed a cyber-security wargame website (using Flask, HTML, CSS, and the Bootstrap framework) to host practice challenges for the cyber-security club at my school. Also developed exploitable services to use as challenges on the site.
  - Worked in a group to make an "Internet of Things" trebuchet using a Raspberry Pi, a camera, and a few motors. Also created a web server in C along with a web interface to control the trebuchet.
  - Worked in a group to make a website that uses the Eventbrite API to find events, and also provides weather data and directions to the event using the Dark Sky API and Google Maps API.
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**Extracurricular Activities:**

Secretary of BUILDS (BU's Makerspace, <http://builds.cc>): Fall 2015 – Present

- Organized events such as hackathons and workshops and recruited new members
- Managed club property including our website, servers, 3d printers, and our network.

Member of BU High Performance Computing: Fall 2015 – Present

- Worked on compiling and optimizing scientific programs to run faster and at lower power levels on HPC clusters.
- Placed in the top 16 teams world-wide for ASC'16 and top 12 teams for ISC'16
- Competed in the ISC'16 Student Cluster Competition in Frankfurt, Germany.

Member of the 0xBU Cyber-Security Club (<https://0xBU.com>): Fall 2015 - Present

- Competed in over 20 cyber-security CTF competitions (team can be found at <https://ctftime.org/team/22064>)
- Have done write-ups for some challenges I've solved at <https://github.com/xPowerz/CTF-Writeups>