Joshua Bowman

Email: jbowma14@gmail.com | Github: https://github.com/jb897 | Mobile: +1-717-585-4979

Education

Tufts University Medford, MA
Bachelors of Science (BS), May 2020, Current GPA: 3.24/4.0
Double Major: Computer Science & Cognitive Brain Sciences

Relevant Courses: Data Structures, Machine Structure & Assembly Language, Web Programming, Programming Languages, Discrete Math, Autonomous Intelligent Robotics, Human Robot Interaction, Algorithms(Fall 2019), Introduction to Computer Security (Fall 2019)

Activities & Honors: Jumbocode, club lacrosse, club ski racing, Dean's List Fall 2017 and Spring 2018

Skills

Programming Languages: C, C++, Python, HTML/CSS, Javascript, Bash/Shell scripting, functional programming

Software: Git, Linux/Unix OS, ROS(Robot Operating System), Docker, MongoDB, Sublime Text, VIM, LaTeX, Jira, Jenkins, Bitbucket, Metasploit, nmap, Wireshark

SDK / API: Google Login API, Tenable.io SDK, REST API

Experience

Nasuni, *Software Engineering Intern - Platform* *Boston, MA, June - August 2019*

- Developed a KVM for internal testing of NAS software.
- Designed a tool for running vulnerability scans and creating reports on Nasuni's cloud file-service. Incorporated this tool into the development cycle using Jenkins.
- Integrated tools such as Nessus, OWASP ZAP, Nikto, and Arachni. Configured the scanner for CentOS.
- Employed development tools such as Jira and Bitbucket to collaborate on code reviews and patch software bugs.

IBM, *Backend Software Engineer Intern* *Tucson, AZ, June - August 2018*

- Devised Python and shell scripts for testing IBM's SpectrumNAS storage product.
- Assisted in the physical construction and maintenance of server clusters that hosted virtual machines.

PhantomLand Media LLC, *Website Developer* *Harrisburg, PA, June - August 2017*

- Developed and deployed the website for the startup company PhantomLand Media.
- Learned how design components of a website interact, as well as utilizing Github to remotely store and host code for a live website.

Projects

Pixel_Brightness.c

- C project that determined the average brightness of a picture by analyzing the greyscale each pixel.

asssembly-bomb

- Interpreted the actions programmed in multiple assembly language programs.
- Retrieved a secret code at the end of each program, "difusing" the current program and giving us the key to the next program.

Tufts Meal Tracker

- Developed using a stack of Node.js, Express.js, and MongoDB to track meals in Tufts dining hall.
- Designed the program to allow students to subscribe and track their favorite meals at the dining halls, and to receive notifications about the dates and locations where the food was being served.
- Utilized data scraped from Tufts Dining

Gerp.cpp

- Reverse engineered the UNIX 'grep' command in c++
- Used pointers and specific structures to increase the speed of the search and retrieval in the algorithm