Joshua Messitte

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Education

University of Georgia, Honors College   *UG*: *12/21 *G*: *12/22
B.S. Computer Science (*12/21), M.S. Computer Science (*12/22), Minor: Public Health
GPA: 3.9

Technical Skills

Languages: Java, Python, C, C++, Assembly (MIPS), JavaScript, PHP
Frameworks / Technologies: R, MATLAB, SQL, HTML, CSS, Django, STK (Systems ToolKit)
Software: Git, Maven, Heroku
Licenses: HAM Radio Technician

Experience

Booz Allen Hamilton – *Cyber Intern*
Enterprise Software Development Team   June 2021-August 2021
- Returning Intern
Malware Team   June 2020-August 2020
- Worked on a team of five to construct a modular malware analysis framework.
- Developed an application that uses the LightGBM model to classify potential malware samples and analyze model degradation.
- Developed a tagging a searching tool to be used by the firm's malware analysts to classify large volumes of samples.

UGA Small Satellite Research Laboratory – *Mission Operations*
Team Lead   January 2021- Present
- Oversee a team of around 12 undergraduate students from STEM backgrounds.
– Direct and oversaw the development and maintenance of UGA's own COSMO Ground Station as well as tests of readiness.
– Direct laboratory recruitment by coordinating applications, interviewing laboratory applicants, and onboarding new members.
– Coordinate laboratory licensing with NOAA and the IARU.
Team Member   October 2020 – February 2021
– Helped write Concept of Operations and flight software for MOCI (Multiview Onboard Computational Imager) Satellite
- Wrote software that interfaces with the TMTCLab API, connects to our satellite database, and automates readiness tests.

UGA Division of Academic Enhancement – *Undergraduate Tutor*   May 2020 – January 2021
- Peer tutor to other undergraduate students for the following courses: Intro to Programming, Intro to Python, Software Development, Systems Programming, Data Structures and Algorithms.

UGA Visitor Center – *Tour Leader*   November 2018 – Present
- Give year-round tours to prospective students and their families and serve as an all-around student ambassador a university representative.
– Staff the visitor center desk, answer phone calls, and help guests; hired as a freshman.

Research & Projects

Athens Anti-Discrimination Freedom Fund Bail Finder Application (Data4Good)   March 2021-Present
– Web-scraping tool developed in conjunction with the Athens Anti-Discrimination Freedom Fund to analyze inmate data and identify inmates eligible for bail payment.
MOCI (Multiview Onboard Computational Imager)   October 2020-Present
-6u CubeSat, tasked with performing Structure from Motion Object detection at Low-Earth-Orbit (LE
– Winner of University Nanosatellite Program (Competition NS-9) Flight Selection Review, Launch scheduled for *Q2 2022
Computer Networking Suite
- Tools like a TCP SYN traceroute with latency graphics, a Download Accelerator, a DoH-capable DNS Server, a Threaded FTP client-server protocol, and a persistent asynchronous multicasting tool.
- Python, Java, Plotly, pandas, Scapy
Malware Analysis Framework – A Toolkit of Static Malware Analysis   July 2020
- Presented to Booz Allen Hamilton Cyber Account (Some source files on GitHub).
- Python, x86 ASM, IDA Pro, Ghidra, Elastic
Baldwin Books   Spring 2021
- Software Engineering Term Project; Python, Django Framework, HTML/CSS