

Joshua Messitte

<https://joshmessitte.dev>

191 E Broad St Apt 303, Athens, GA

Joshua.Messitte@uga.edu

<https://github.com/joshmess>

(301) 910-5674

Education

University of Georgia, Honors College

B.S. Computer Science, M.S. Computer Science, Minor: Public Health

GPA: 3.9

UG: *12/21 G: *12/22

Technical Skills

Languages: Java, Python, C, C++, Assembly (MIPS, x86), JavaScript, PHP

Frameworks / Technologies: R, MATLAB, SQL, HTML, CSS, Django, Flask, STK (Systems ToolKit)

Software: Git, Maven, Heroku

Licenses: HAM Radio Technician (KO4PLI)

Experience

Booz Allen Hamilton – Cybersecurity Intern

Malware/Reverse Engineering Team

June 2021 - Present

- As a returning intern with the National Security group, I designed and built a network traffic analytics platform with interactive data and a predictive machine learning model.

Malware/Reverse Engineering Team

June 2020-August 2020

- Worked on a team of five to construct a modular malware analysis framework.
- Developed two command-line tools for analysts at the firm.

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 oversee the development and maintenance of UGA's COSMO Ground Station as well as system 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 other documentation 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. *Tech Stack: Flask, Python, HTML/CSS, SQLite.*

Center For Orbital Satellite Mission Operations (COSMO)

October 2020-Present

- The COSMO station will allow full uplink and downlink of both telemetry and science data from the SSRL CubeSat missions.
- My team and I are currently developing the Orbit software suite for the COSMO station.

Computer Networking Suite

- Tools like a TCP SYN traceroute with latency graphics, a HTTP 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. *Tech Stack: Python, Django Framework, HTML/CSS*