Brutus Buckeye

Columbus, OH 43210
614-123-4567
buckeye.1870@osu.edu

EDUCATION

The Ohio State University, College of Engineering & Computer Science, *Columbus OH*

Master of Science in Computer Science & Engineering **Expected: 12/2027**

Bachelor of Science in Computer & Information Science **Graduated: 12/2018**

CompTIA Security+ Certification **03/2022-03/2025**

CORE COMPETENCIES

Relevant Skills: Cybersecurity, Information Security, Network Security, Cryptography, Penetration Testing, Rish Assessment, Incident Response, Compliance Knowledge, System Vulnerability Assessment, Disassemblers

Software: Ghidra, GDB, Arm, ROTS, Windows, Linux, Python Scripting, C, TCP, Bash, Jira, Git, CompTIA Security+

RESEARCH EXPERIENCE

Graduate Researcher | W2GIL Lab, The Ohio State University, *Columbus OH* **05/2023-Present**

- Combined AI frameworks for training and inference of disassembly code with disassembly tools
- Developed a data preprocessing pipeline which utilized multi-processing to reduce runtime by a factor of 8
- Collaborated with advisor to explore research objectives and cross-check assumptions as data is collected

RELEVANT PROJECTS

ProtoFBOM | The Ohio State University, *Columbus, OH* **10/2024-Present**

- Develop a tool to analyze firmware disassembly and compare to a set of known firmware to reveal similarities
- Employ essential tools including Ghidra, and Angr for binary analysis and extracting disassembly
- Implement AI for creating a model for comparing to sets of assembly
- Utilize relevant and useful tools such as Docker and Conda in the final completion of this project

Similarity of Drone Firmware | The Ohio State University, *Columbus, Ohio* **06/2024-Present**

- Conducted analysis of commercial and open-source drone firmware and found 97% similarity
- Utilized AI and disassemblers as an essential component in the completion of the project
- Determined a high likelihood of code-reuse in the drone firmware ecosystem based on the final results

FIELD RELATED EXPERIENCE

Information Security Compliance Lead | OCLC, *Columbus OH* **04/2023-Present**

- Remediated security audit findings involving cross-team coordination, ensuring security controls were implemented purposefully and effectively.
- Implemented foundational cybersecurity of a proper IT asset inventory for a medium sized IT organization
- Reorganized vulnerability management procedures to decrease the overall risk profile of the organization

IT Client Support Specialist (HPC) | Ohio Supercomputer Center, *Columbus OH* **02/2019-04/2023**

- Completed a scheduled Splunk Security Event Management System alert if sudo is attempted by a user more than 3 times in a 24-hour period instead of sending individual emails for each event.
- Developed risk analysis and response procedure for triage of incoming incidents from ticket queue, involving assessing the incident for severity and impact using Service-Now ITSM tool.
- Created and executed project plans to add cybersecurity controls and audits to my.osc.edu web application to improve security. These controls include MFA, email change request procedure, annual verification and review of user profiles and their projects, and proper tagging of projects which store sensitive data.

Student System Administrator | The Ohio State University, *Columbus OH* **05/2017-12/2018**

- Provided monthly security scans where over 100 Linux based operating systems were checked for outdated software and rectifying any discrepancies.
- Installed Windows, Mac and various Linux based operating systems and certified them according to university security standards by installing malware detection software.