

SKILLS

CLEARANCE

Top Secret SCI with CI polygraph

EDUCATION

SENIOR CAPABILITY DEVELOPER

Specialty: Unix Access

October 2021 | Fort Gordon, GA

BASIC OFFICER LEADER COURSE

March 2019 | Fort Gordon, GA

BASIC CAPABILITY DEVELOPER

October 2018 | Fort Gordon, GA

CLEMSON UNIVERSITY

B.S. Computer Science

May 2018 | Clemson, SC

TOOLS

ghidra • binaryninja • afl++
gdb • pwntools • objdump
nasm • binwalk • centrifuge
git • PyPi • strace • angr

ENVIRONMENTS

VMWare • Qemu • Docker
Proxmox • lxc • Mayhem • pfsense
MikroTik • Cisco • Netgear

CERTIFICATIONS

Mission Commander • MTCNA
CCNA • MTCRE
SEC+ • CEH • VHL

LANGUAGES

PROGRAMMING

Every day:

Python • C • x86/x64 • bash

Frequently:

C++ • Arm • Arm64 • cmake • make

Familiar:

MIPS • PowerPC • TileGX • GO

INTERPERSONAL

English • German

PROJECTS

pwnc

— A python library for automating
libc exploitation based on leaked
offsets of symbols

OBJECTIVE

Driven senior security researcher seeking challenges in the Internet of Things reverse engineering, capability development, and malware analysis fields.

EXPERIENCE

SENIOR SECURITY RESEARCHER

Capability Solutions Detachment - Georgia

October 2021 - Present | Fort Gordon, GA

- Discovered three unpublished vulnerabilities saving the U.S. Army approximately \$750k
- Orchestrated two development projects ensuring the production of capabilities that fulfilled documented requirements from supported organizations
- Trained, mentored, and certified two aspiring basic capability developers to support ongoing operations with qualified personnel
- Produced three production ready technical solutions to support active mission requirements

SECURITY RESEARCHER

Capability Solutions Detachment - Georgia

February 2021 - October 2021 | Fort Gordon, GA

- Identified unpublished exploitable vulnerabilities in targeted technologies
- Mentored three aspiring capability developers through the basic developer qualification process resulting in a 100% qualification rate
- Engineered fuzzing harnesses for Internet of Things devices to support fuzzing with various platforms resulting in the discovery of exploitable vulnerabilities
- Produced documented vulnerability research to support partner organizations by providing them the information needed to overcome technical obstacles
- Developed four operationally accepted capabilities that fulfilled documented requirements from Combat Mission Teams and other supported organizations

JUNIOR CAPABILITY DEVELOPER

106 Combat Mission Team

April 2019 - February 2021 | Fort Gordon, GA

- Developed nine capabilities saving the U.S. Army approximately \$1.3 million
- Commanded 24 interactive cyber operations
- Commanded three cyber effects operations
- Submitted and tracked 100% more technical requirements than any other team which resulted in 18 new approved solutions
- Developed capabilities and techniques that directly supported Cyber Effects Operations
- Mentored and evaluated three aspiring mission commanders ensuring the team has mission certified personnel
- Acted as Lead Technical Advisor for five Cyber Effects Operations

ACHIEVEMENTS AND AWARDS

2021	3rd Place	CISA Presidents Cup Cyber Competition
2021	1x	Army Achievement Medal
2020	1x	Army Commendation Medal with "R" device
2019	1x	Army Commendation Medal with "R" device
2019	1st Place	Capability Solutions Detachment - Georgia Hackathon