

## **CLEARANCE**

Top Secret SCI with CI polygraph

## **EDUCATION**

SENIOR SOFTWARE ENGINEER

Specialty: Unix Access October 2021 | Fort Gordon, GA

BASIC OFFICER LEADER COURSE March 2019 | Fort Gordon, GA

JUNIOR SOFTWARE ENGINEER October 2018 | Fort Gordon, GA

CLEMSON UNIVERSITY B.S. Computer Science May 2018 | Clemson, SC

## SKILLS

#### **Tools**

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

#### **ENVIRONMENTS**

VMWare • Qemu • Docker Proxmox • Ixc • 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

### **OBJECTIVE**

Driven senior software engineer with a security specialty seeking new challenges architecting software systems.

## **EXPERIENCE**

### **U.S. ARMY CYBER**

Senior Software Engineer | Fort Gordon, GA | October 2021 - Present

- Discovered three unpublished vulnerabilities saving the U.S. Army approximately \$750k
- Orchestrated two development projects ensuring the production of software products 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

### **U.S. ARMY CYBER**

Software Engineer | Fort Gordon, GA | February 2021 - October 2021

- Identified unpublished exploitable vulnerabilities in targeted technologies
- Mentored three aspiring software engineers through the junior 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
- Developed four operationally accepted capabilities that fulfilled documented requirements from Combat Mission Teams and other supported organizations

### **U.S. ARMY CYBER**

Junior Software Engineer | Fort Gordon, GA | April 2019 - February 2021

- Developed nine software products saving the U.S. Army approximately \$1.3 million
- Mentored and evaluated three aspiring mission commanders ensuring the team has mission certified personnel
- Commanded 24 interactive cyber operations
- Submitted and tracked 100% more technical requirements than any other team which resulted in 18 new approved solutions

# PERSONAL PROJECTS

Links to my projects and blog posts

- pwnc a python library for automating libc exploitation
- handout exploiting target binaries with seccomp enabled
- sbof my journey into linux kernel exploitation and device driver development

# 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	1×	Army Commendation Medal with "R" device

2019 1st Place Capability Solutions Detachment - Georgia Hackathon