Joe Hilbert

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SKILLS

Clearance
Top Secret SCI with CI polygraph

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

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

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- Discovered three unpublished vulnerabilities saving the U.S. Army approximately $750k
- Led two development projects ensuring the production of capabilities that fulfilled documented requirements from Combat Mission Teams and other 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- Identified unpublished exploitable vulnerabilities in targeted technologies
- Developed 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
- Mentored three aspiring capability developers through the basic developer qualification process resulting in a 100% qualification rate

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
- Led cyber firing teams on 24 interactive operations
- Led cyber firing teams on three Cyber Effects Operations
- Developed capabilities and techniques that directly supported Cyber Effects Operations
- Acted as Lead Technical Advisor for five Cyber Effects Operations
- Mentored and evaluated three aspiring mission commanders ensuring the team has mission certified personnel
- Submitted and tracked 100% more technical requirements than any other team which resulted in 18 new approved solutions

ACHIEVEMENTS AND AWARDS

2021	3rd Place	CISA Presidents Cup Cyber Competition	
2019	1st Place	Capability Solutions Detachment - Georgia Hackathon	
2019 & 2020	2x	Army Commendation Medal with "R" device	
2021	1x	Army Achievement Medal	