Joe Hilbert

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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 • 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

OBJECTIVE

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

EXPERIENCE

U.S. ARMY CYBER | CSD-G

Senior Software Engineer | Fort Gordon, GA | October 2021 - Present
- Discovered three unpublished vulnerabilities worth approximately $750k
- Orchestrated two development projects ensuring the on-time delivery of products that fulfilled documented customer requirements
- Trained and certified two aspiring junior software engineers 50% faster than expected
- Exceeded expectations by delivering three software products to customers in less time than expected

U.S. ARMY CYBER | CSD-G

Junior Software Engineer | Fort Gordon, GA | February 2021 - October 2021
- Identified one unpublished exploitable vulnerability in targeted technologies
- Designed and implemented four software products that fulfilled documented requirements from customers
- 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

U.S. ARMY CYBER | 106 CMT

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
- Submitted and tracked 100% more technical requirements than any other team which resulted in 18 new approved solutions

PERSONAL PROJECTS

Links to my favorite published projects and blog posts
- sbof — my journey into linux kernel exploitation and device driver development
- pwnc — a python library for automating libc exploitation
- handout — exploiting target binaries with seccomp enabled

ACHIEVEMENTS AND AWARDS

Year		
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