



EXPERIENCE

Active Security Clearance:
TS/SCI w/ Polygraph

Tyler C. McCann

Senior Lead, Cyber Threat Emulator
(OSCE³)

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ABOUT

I am a hands-on individual; one who is aptitude oriented, values the ability to communicate efficiently and honestly, as well as one who thrives on self-development.

ACHIEVEMENTS

Cyber Apocalypse CTF 2023 (HackTheBox)

Team placed in the top 3% globally (245/6483).

EDUCATION

Joint Cyber Analysis Course (JCAC)

1000+ hour NSA accredited course that teaches the knowledge and skills required for offensive and defensive cyber operations.

December 2018 – June 2019

Middle Tennessee State University (MTSU)

Computer Engineering, B.S.
(In-Progress)

August 2016 – May 2018

DoD SkillBridge Internship

SkillBridge Intern | SIXGEN

March 2024 – June 2024

Exploit Developer

Network Engineer

Exploit Developer

SIXGEN

Developed proficiency in Windows User Level exploits for Intel x86 architectures and exploit crafting techniques, bypassing common security mitigations such as DEP and ASLR. Other topics covered include binary obfuscation for endpoint AV evasion.

Intel x86

Assembly

Reverse Engineering

Network Engineer

SIXGEN

Aided in the development of both scalable and maintainable virtualized networks emulating enterprise Active Directory environments containing user emulation, enabling robust red team operator training. This extended to vulnerability implementation and validation.

Proxmox

DevOps

Active Directory

Cyber Operations Specialist (17C)

Staff Sergeant (SSG) | U.S. Army

August 2018 – September 2024

Cyber Threat Emulator

Senior Network Analyst

Analytic Support Officer

Cyber Threat Emulator

U.S. Army Cyber Protection Brigade (USACPB)

Senior lead in the unit's Cyber Threat Emulation (CTE) cell, mentoring and developing junior offensive operators while specializing in conducting custom Red and Purple Teaming exercises against the brigade's Cyber Protection Teams (CPTs), emulating Advanced Persistent Threats (APTs). Additionally, focusing on generating data analytics by virtualizing, deploying, and executing CVEs and TTPs on critical infrastructure, ranging from industrial control systems (ICS) to enterprise environments.

Penetration Testing

Active Directory

AV Evasion

Web Exploitation

SQL

DevOps

Senior Network Analyst

U.S. Army Cyber Protection Brigade (USACPB)

Senior network analyst on a U.S. European Command (USEUCOM) based Cyber Protection Team (CPT), engaging in a variety of mission types from incident response to network hardening and threat hunting. During this time, advised and assisted junior analysts during two forward operations in Europe. Gained proficiency in a multitude of technologies, including Splunk, Elastic Stack, and Endgame EDR.

Linux

Windows

Security Onion

Splunk

Elastic Stack (ELK)

ESXi

Sysmon

Analytic Support Officer

U.S. Army Cyber Protection Brigade (USACPB)

Subject Matter Expert (SME) for both detecting information gaps and generating potential analytics for priority information requirements (PIRs) for both upcoming and ongoing missions.

Data Analytics

Dashboards

Digital Forensics

CERTIFICATIONS

DoD Directive 8570 Compliance:
IAT-III, CSSP Analyst, CSSP Infrastructure Support,
CSSP Incident Responder, CSSP Auditor

SKILLS

- Intel x86
 - Shellcode
- Assembly
 - ROP
- DevOps
 - PenTesting
- Networking
 - Active Directory
- CI/CD
 - AV Evasion
- Github Pages
 - IEEE 802.11
- Proxmox
 - Web Exploitation
- ESXi
 - SQL
- Automation
 - PrivEsc
- Scripting
 - Reverse Shells
- Network TAPs
 - XXE
- SIEM
 - XSS
- Dashboards
 - Template Injection
- Data Analytics
 - Exfiltration
- Digital Forensics
 - Bash
- Security Onion
 - PowerShell
- Splunk
 - C#
- Elastic Stack
 - .NET
- Sysmon
 - Microsoft Office
- Linux
 - Windows

- OffSec Certified Expert 3 (OSCE³) May 2024 | OffSec
- OffSec Exploit Developer (OSED) May 2024 | OffSec
- OffSec Experienced Penetration Tester (OSEP) April 2023 | OffSec
- OffSec Certified Profession (OSCP) March 2023 | OffSec
- OffSec Web Expert (OSWE) March 2024 | OffSec
- OffSec Web Assessor (OSWA) December 2023 | OffSec
- OffSec Wireless Professional (OSWP) April 2023 | OffSec
- Red Team Apprentice Certified (RTAC) March 2024 | k>fivefour
- Certified Ethical Hacker (CEH) June 2024 | EC-Council
- GIAC Certified Enterprise Defender (GCED) August 2020 | SANS Institute
- OffSec Defense Analyst (OSDA) May 2024 | OffSec

PROJECTS

RGBwiki

<https://rgbwiki.com>

Owner and creator of RGBwiki, a Github Pages hosted site containing an aggregate of offensive (red), DevOps/infrastructure (green), and defensive (blue) knowledge in the form of an Obsidian Vault utilizing mkdocs.

[CI/CD](#) [Github Pages](#) [MkDocs](#) [Documentation](#)

Bit-Bandits

<https://bit-bandits.com>

Co-contributer to Bit-Bandits, a Github Pages hosted wiki dedicated to providing detailed writeups on different CVE's and attacker techniques, from infrastructure deployment to actual exploitation.

[CI/CD](#) [Github Pages](#) [MdBook](#) [Documentation](#)

SigmaPotato

<https://github.com/tylerdotrar/SigmaPotato>

Self-impersonate privilege escalation tool for Windows 8 - 11 and Windows Server 2012 - 2022 with extensive PowerShell and .NET reflection support.

[C#](#) [.NET](#) [Privilege Escalation](#)

PoorMansArmory

<https://github.com/tylerdotrar/PoorMansArmory>

Collection of robust Windows-based payload generators and tools that aim to bypass AMSI, Windows Defender, and self-signed certificate checks. Tools range from a custom python HTTP(s) server, robust PowerShell reverse shell generator, remote template injected .docx generator, XSS and XXE PoC payloads, etc.

[PowerShell](#) [Python](#) [Reverse Shells](#) [XXE](#) [XSS](#) [Template Injection](#) [Exfiltration](#)

genrev

<https://github.com/tylerdotrar/genrev>

Modular Python tool that uses the Python keystone-engine library to convert Intel (x86) assembly instructions into Windows shellcode.

[Python](#) [Assembly](#) [Shellcode](#)