



Tyler C. McCann

Senior Lead, Cyber Threat Emulator
(OSCE³)

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ABOUT

I am a hands-on individual; one who is technical-prowess oriented as well as one who values the ability to communicate honestly, learn fast, and self-develop on technical subjects that are daunting at first glance.

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.
August 2016 – May 2018

EXPERIENCE

Active Clearance: TS-SCI w/ Polygraph
DoD Directive 8570 Compliance: IAT-III

DoD SkillBridge Internship

SkillBridge Intern | **SIXGEN**

March 2024 – June 2024

Exploit Developer **Network Architect**

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 ALSR.

Intel x86 Assembly Reverse Engineering

Network Architect

SIXGEN

Developed both scaleable and maintainable virtualized networks emulating enterprise Active Directory environments with user emulation, enabling robust red team operator tranning.

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 my unit's Cyber Threat Emulation (CTE) cell, primarily focusing on developing defensive analysts within the brigade's Cyber Protection Teams (CPTs) via Red & Purple Teaming exercises while emulating Advanced Persistence Threats (APTs), as well as generating data analytics by virtualizing, deploying, and executing CVE's and TTP's on critical infrastructure.

Penetration Testing Active Directory Antivirus Evasion Web Exploitation SQL DevOps

Senior Network Analyst

U.S. Army Cyber Protection Brigade (USACPB)

Senior network analyst on a European Command (EUCOM) based Cyber Protection Team (CPT), engaging in a variety of mission types from network hardening to threat hunting, while gaining familiarity with a multitude of technologies.

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

SKILLS

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

CERTIFICATIONS

- 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
- GIAC Certified Enterprise Defender (GCED) August 2020 | SANS Institute

PROJECTS

RGBwiki

https://rgbwiki.com

Owner and creator of RGBwiki, a Github Pages hosted wiki 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-contributor 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

Selmpersonate 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