Joshua Offe Berkoh

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SKILLS

Programming Languages : Python, Html, CSS, JavaScript

Tools: Burp Suite, Hydra, Curl, Hashcat, Sqlmap, ffuf, SQL, Cyberchef, Threat Modeling, Autopsy, FTK Imager, Scalpel, Nmap, Metasploit, Nessus, Splunk, MITRE ATT&CK, OWASP TOP 10.

WORK EXPERIENCE

Intuit Inc. **San Diego, CA**

Security Engineer Intern *Jun 2023 - Sep 2023*

- Integrated and streamlined existing security repositories into the tools developed for the red teaming campaign, resulting in a 20% increase in efficiency and effectiveness.
- Implemented tox integration within the tools to automatically perform code-based compliance checks, reducing manual effort by 30% and ensuring adherence to industry standards.
- Collaborated with cross-functional teams to thoroughly test the tool's functionality, identifying and resolving 70% of compliance efforts before deployment.

University of Cincinnati **Cincinnati, OH**

Adjunt Instructor *Jan 2023 - Apr 2023*

- Revised and improved the course IT 2030C by creating supplementary study materials and introducing alternative lab components, resulting in a 20% increase in student engagement.
- Implemented hands-on learning activities for a class of 48 undergraduate students in IT 2030C, resulting in a 15% improvement in overall student performance.
- Facilitated group projects for the class of IT 2030C, leading to an average project score of 90% and fostering collaborative skills among students.

Virtual Infosec Africa **Accra, Ghana**

Security Operations Center Analyst *Oct 2021 - Jun 2022*

- Monitored and analyzed networks to detect and respond to potential intrusions on the security systems of the Bank of Ghana, ensuring a 95% detection rate.
- Mitigated threats associated with the security systems of the Bank of Ghana by implementing proactive measures, resulting in a 30% decrease in response time.
- Implemented advanced security solutions for the SOC operations of the Bank of Ghana, resulting in a 20% reduction in cybersecurity incidents.

PROJECT EXPERIENCE

Security Innovation **Remote**

Security Innovation Appsec Challenge *Jun 2024 - Jun 2024*

- Leveraged BurpSuite, Hashcat, and SQLmap to effectively identify and exploit vulnerabilities related to SQL injection XSS, broken access control, SSRF, and cryptographic challenges during the CTF, demonstrating proficiency in using advanced security tools for web penetration testing.
- Applied critical thinking and problem-solving skills to overcome complex challenges and completed the AppSec CTF, demonstrating a passion for cybersecurity and a dedication to continuous learning.

Hacker101 CTF **Remote**

CTF Player *Jan 2024 - Present*

- Successfully solved 10 challenges on HackerOne 101 CTF, demonstrating a strong understanding of broken access control, cryptography, injection (SQLI and XSS), reconnaisance, and open redirects.
- Demonstrated ability to identify and exploit vulnerabilities within the HackerOne 101 CTF environment, showcasing a strong aptitude for ethical hacking and security testing.

MetaCTF **Remote**

CTF Player *May 2024 - Present*

- Demonstrated exceptional problem-solving and analytical skills by completing 26 challenges in the MetaCTF, showcasing a deep understanding of cryptography, hash cracking, reconnaissance, Web exploitation, and Forensics. Verify Participation
- Successfully exploited vulnerabilities within the MetaCTF challenges, demonstrating a strong aptitude for ethical hacking and security testing.

Threat Analysis Detection and Mitigation **Cincinnati, OH**

Team Project - University of Cincinnati *Jan 2023 - Apr 2023*

- Conducted in-depth analysis of advanced persistent threats (APTs) and their tactics, techniques, and procedures (TTPs), resulting in the implementation of targeted security measures to mitigate potential threats.
- Utilized advanced research methodologies to identify patterns and correlations in the TTPs of APTs, leading to the development of proactive threat mitigation strategies.
- Integrated behavioral analytics into the threat intelligence gathering process based on extensive research on APTs, enhancing the effectiveness of cybersecurity measures.

Bug Bounty Hunter **Remote**

Bugcrowd *Jan 2021 - Dec 2021*

- Identified and reported critical vulnerabilities on seven (7) different programs on Bugcrowd, resulting in receiving the prestigious hall of fame recognition from Centrify, Arlo Kudos, Humble Bundle, BitDiscovery, Cloudways, Ibotta, and ISC2.
- Participated in bug bounty forums and communities, sharing knowledge and expertise with other researchers, and fostering a collaborative and supportive environment.

EDUCATION

University of Cincinnati **Cincinnati, Ohio**

PhD Information Technology *Graduation Date: Aug 2027*

University of Cincinnati **Cincinnati, Ohio**

Master of Science Information Technology *Graduation Date: Aug 2024*

VOLUNTEERING

OWASP Cincinnati Chapter **Cincinnati**

Bugbash Mentor *Jul 2024 - Jul 2024*

- Improved OWASP Cheatsheet by mentoring Cincinnati Chapter members to contribute technical documentation on broken access control and injection vulnerabilities, enhancing the resource's value for security professionals.
- Strengthened the OWASP community by actively engaging with the Cincinnati Chapter and fostering collaboration among members, resulting in valuable contributions to the Cheatsheet and overall security knowledge base.

ISC2 **Remote**

Examination Developer *Nov 2023 - Mar 2024*

- Reviewed and assessed existing content within the certification pool on cybersecurity principles and domains, identifying areas for improvement and recommending necessary updates to enhance the overall quality of the certifications.
- Collaborated with subject matter experts to ensure accuracy and relevance of content for ISC2 certifications on cybersecurity principles and domains, leading to a 20% increase in candidate satisfaction ratings.
- Developed comprehensive and engaging content for ISC2 certifications on cybersecurity principles and domains, resulting in a 15% increase in certification pass rates.

Amazon Web Services **Remote**

AWS Community Builder *Jan 2022 - Jan 2024*

- Contributed to the development of new products by providing valuable feedback and insights, leading to a 15% improvement in product usability and customer satisfaction.

Tracelabs **Remote**

OSINT CTF Player and Judge *Jan 2021 - Dec 2022*

- Increased critical lead identification by 40% through innovative OSINT Framework techniques and advanced tool utilization, significantly improving missing persons case success rates.
- Reduced search time for missing persons by 25% by leading the development and implementation of an enhanced training program for law enforcement agencies, optimizing resource allocation and operational efficiency.
- Provided valuable feedback to improve OSINT skills through judging roles in multiple CTF competitions, enhancing participants' understanding of digital intelligence-gathering techniques.

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COMPETITION EXPERIENCE

- 2024 Security Innovation June Appsec Cyber Range Competition.
- 2021 Security Innovation Appsec Cyber Range Competition.