**Joseph Clay**

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**Penetration Tester**

Skilled **Penetration Tester** respected for assessing physical, technical, and administrative controls to improve the security posture of an organization. Capable of conducting Internal and External Infrastructure tests, Web Application tests, Wireless Tests, and tests involving Social Engineering and Physical access. Effectively communicates findings and recommendations to other technical professionals as well as laymen. Known as a democratic, assertive leader who cultivates high-performing teams to optimize security technologies and maintain policies and standards. Certified in PNPT, eJPT, CompTIA Security Plus, and Cybersecurity. Out-of-the-box thinker committed to delivering continuous improvement through rigorous research and testing procedures to identify and exploit vulnerabilities and to provide recommendations to mitigate risks. Constantly sharpening skills and working to stay up to date with the newest breaches and vulnerabilities discovered to stay relevant in an ever-evolving technological landscape.

**CAREER HIGHLIGHTS**

* Claimed the lead role for a full internal penetration test for a client with over eight thousand hosts in the internal network. Led all the calls with this client, wrote the entire report, and delivered all materials on time.
* Began volunteering to mentor individuals seeking to launch their careers in Cybersecurity.
* Passed the eJPT exam in under 7 hours with a 90% score.
* Ranked 5th in the B-Sides Charlotte SecureCodeWarrior CTF Challenge.
* Reviewed, troubleshot, and made edits to a scenario to address 11 customer complaints/bugs in 5 days.
* Completed the Cybersecurity Bootcamp with a 4.0 GPA leading to a recommendation for a TA position at UNC.

**Skills & Expertise**

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| * Penetration Testing | * Incident Response | * User Training |
| * Red Team Exercises | * Patching | * Endpoint Attack Techniques |
| * Cloud Infrastructure | * Vulnerability Remediation | * Network Security Infrastructure |

**Professional Experience**

**FLEXENTIAL PROFESSIONAL SERVICES | REMOTE – BOULDER, CO | 2021 - PRESENT**

**Penetration Tester**

Providing penetration testing and consulting services to over a hundred clients to help them maintain security compliant status, secure data, assess technical controls, and make expert recommendations for vulnerability mitigation.

* Assumed a great deal of responsibility on the penetration testing team as the lead of the team left shortly after I was hired, meaning I had to step up and perform tasks outside of my comfort zone
* Conducted internal and external infrastructure, web application, wireless, and social engineering penetration tests for a variety of clients with strict deadlines.
* Claimed ownership of the internal infrastructure testing machine procedure and redesigned the process to be more reliable and efficient utilizing an OpenVPN server in AWS to connect the pentesting team to devices at client sites.
* Authored, co-authored, and modified scripts in bash and Python to automate testing procedures to save time and allow multi-tasking during engagements.
* Reconstructed a nessus2docx tool used to convert Nessus files into a more easily modifiable docx format used for validating Nessus findings manually during penetration tests

**CIRCADENCE CORPORATION | REMOTE - BOULDER, CO | 2020 - 2021**

**Information Security Engineer**

Provided operational cybersecurity expertise and worked with developers to create immersive, realistic cyber training environments integrated into a gamified platform.

* Delivered operational cybersecurity expertise by cultivating Python and YAML skills creating scenarios for Project Ares, a gamified cybersecurity training platform.
* Created immersive, realistic cyber training environments by navigating a complex infrastructure hosted in Azure and getting acquainted with a plethora of technical tools.
* Reviewed, troubleshot, and made edits to a scenario to address 11 customer complaints/bugs in 5 days.
* Utilized SaltStack to make run-time configuration changes to the services and states of VMs used by scenarios.

**2U | REMOTE - CHARLOTTE, NC | 2020 - 2021**

**Cybersecurity Bootcamp Senior Tutor**

Promoted to Senior tutor for consistently helping students achieve positive outcomes during high volume sessions.

* Contributed to a substantial increase in student retention and pass rate by preparing students to succeed in Cybersecurity and Security Plus certification.
* Improved workflow efficiency by creating and utilizing Python and Google API scripts to assist in online job tasks.

**GLOBAL LINKING SOLUTIONS | CHARLOTTE, NC | 2020**

**Network Operations Center Technician**

Monitored and managed network and service delivery to facilitate the identification, analysis, and resolution of service impacting issues.

* Reduced the escalation frequency to improve service satisfaction by using CLI on Cisco Systems to remediate tickets in queue within established SLAs.
* Isolated and identified root cause of faults by monitoring networks and troubleshooting connectivity issues with carriers, technicians, and sites.
* Restored services to customers quickly by mapping out network topologies, configured subnets, and learned about various networking devices.

**Training & Projects**

**Offensive Security Training | Dec 2021 - Present**

* Received access to the PEN-200 course and labs to train for the Offensive Security Certified Professional (OSCP) exam.
* Began studying for the OSCP exam.
* Successfully gained user and system level privileges on three Proving Grounds Practice machines.

**PortSwigger Training | Dec 2021 - Present**

* Registered for the Web Security Academy Learning Path offered by the makers of BurpSuite.
* Purchased a voucher for the BurpSuite Certification exam.

**TCM Academy Courses/PNPT Exam Preparation | Oct 2021**

* Completed the Practical Ethical Hacking course, teaching the core concepts of penetration testing methodology, as well as Active Directory penetration testing and how to prevent these attacks.
* Completed the External Pentest Playbook course, teaching fundamental concepts related to external penetration testing methodology and practical application of these skills.
* Completed the Open-Source Intelligence Fundamentals course, teaching the core concepts of performing reconnaissance and gathering information about targets from publicly available sources.
* Passed the Practical Network Penetration Tester (PNPT) certification, which consisted of applying the concepts of external penetration testing, exploitation, pivoting into an internal network, gaining a foothold into an Active Directory domain, moving laterally through the domain, fully compromising the Domain Controller, establishing persistence in the network, writing a professional penetration testing report including all relevant findings and recommendations for mitigation, and presenting the report to a well-respected, professional penetration tester.

**Cyber Ranges | HacktheBox, TryHackMe, VulnHub, CTFs | 2019 - Present**

* Placed 5th in the SecureCodeWarrior B-Sides Charlotte 2020 CTF Competition.
* Joined HacktheBox by hacking the website to complete five user and five system owns.
* Set up my lab with Kali Linux and various VulnHub boxes to practice Penetration Testing skills.
* Wrote a walkthrough for a box named NullByte from VulnHub.

**INE eJPT Course for Junior Penetration Tester Certification | May 2021**

* Developed essential penetration testing skills and methodologies, network and WebApp vulnerability assessment skills, skills necessary for exploitation with Metasploit, Open-Source Intelligence knowledge, information gathering and reconnaissance skills, TCP/IP knowledge, and many other applicable skills related to penetration testing.
* Passed the exam in less than 7 hours with a 90% score.

**Cybersecurity Bootcamp Program (UNC Charlotte) | Sep 2019 - Feb 2020**

* Gained invaluable network, system, penetration testing, and other IT and Cybersecurity skills used to successfully pass the ComTIA Security Plus exam.
* Built and configured a virtual network hosting an Ansible Docker container of DVWA, monitored using an ELK stack server set up with FileBeat and MetricBeat to log system and application information.
* Compromised a site called Shadow Bank by enumerating the website and injecting payloads/exploiting SQL vulnerabilities to route money from one account to another account.

**Education & Certifications**

**Cybersecurity Bootcamp Program (GPA: 4.0)** | University of North Carolina - Charlotte, Charlotte, NC: 2020

**Bachelor of Arts in Psychology (GPA: 3.6)** | University of North Carolina - Asheville, Asheville NC: 2017

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| * **Practical Network Penetration Tester (PNPT)** | TCM Security, 2021 * **Junior Penetration Tester (eJPT)** | eLearnSecurity, 2021 * **Security+ ce Certification** | CompTIA, 2021 | * **Cybersecurity Certificate** | UNC Charlotte, 2020 * **Javascript Fundamentals** | SoloLearn, 2019 * **Learn HTML5 and CSS3 to Build a Website from Scratch** | BitDegree, 2019 |

**Technical Skills**

**Penetration Testing**: Kali Linux, Nessus, OpenVAS, Metasploit, NMAP, Hashcat, SQLMap, Nikto, Dirbuster, BurpSuite, John the Ripper, MSFVenom, Merterpreter, netcat

**Programming & Scripting**: Python, bash, YAML, Ansible, PowerShell, Azure DevOps, Git, and VSCode

**Networking**: Packet analysis, Wireshark, router and switch configuration, protocols, SSH, firewalls, iptables, proxies, SIEM, DNS, DHCP, VPN, and VLAN

**Systems**: Windows and Linux Administration/Hardening, Docker, VMWare, VirtualBox, nxlog, auditd, and Sysmon