**Joseph Clay**

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**Security Engineer**

Dynamic, data-driven **Security Engineer** respected for designing innovative red team exercises and penetration testing to improve security posture. Proven track record of developing cost-effective cybersecurity training programs based on threat modeling, user awareness, attack techniques, and mitigation strategies. Known as a democratic, assertive leader who cultivates high-performing teams to optimize security technologies and maintain policies and standards. Certified in eJPT, CompTIA Security+ ce, Cybersecurity, HTML, CSS, and JavaScript Fundamentals. Out-of-the-box thinker committed to delivering continuous improvement by researching advanced protocols to identify and prevent emerging threats in an ever-evolving technological landscape.

**CAREER HIGHLIGHTS**

* Reviewed, troubleshot, and made edits to a scenario to address 11 customer complaints/bugs in 5 days.
* Ranked 5th in the B-Sides Charlotte SecureCodeWarrior CTF Challenge.
* Passed the eJPT exam in under 7 hours with a 90%.
* Completed the Cybersecurity Bootcamp with a 4.0 GPA leading to a recommendation for a TA position at UNC.
* Wrote a walkthrough for a box named NullByte from VulnHub.

**Skills & Expertise**

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| --- | --- | --- |
| * Penetration Testing | * Incident Response | * User Training |
| * Red Team Exercises | * Patching | * Endpoint Attack Techniques |
| * Application Design | * Vulnerability Remediation | * Network Security Infrastructure |
| * Threat Detection | * Secure Development Training | * Cloud Services |

**Professional Experience**

**CIRCADENCE CORPORATION | REMOTE - BOULDER, CO | 2020 TO PRESENT**

**Information Security Engineer**

Provide operational cybersecurity expertise and work 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.
* Reviewed, troubleshot, and made edits to a scenario to address 11 customer complaints/bugs in 5 days.
* Created immersive, realistic cyber training environments by navigating a complex infrastructure hosted in Azure and getting acquainted with a plethora of technical tools.
* Utilized SaltStack to make run-time configuration changes to the services and states of VMs used by scenarios.
* Refined the platform's functionality by playing through scenarios involving webapp pentesting using tools like Nikto, BurpSuite, Dirb, SQLMap, and Hydra.

**2U | REMOTE - CHARLOTTE, NC | 2020 TO PRESENT**

**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.
* Improve workflow efficiency by creating and utilizing Python and Google API scripts to assist in online job tasks.
* Quickly earned a reputation for expertise in degree-level standards and practices across assigned portfolios.
* Provided subject-matter guidance to colleagues during the training planning phase and implementation.

**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 more quickly by mapping out network topologies, configured subnets, and learned about various networking devices.
* Fostered relationships with vendors including Cisco, Fortinet, Adtran, Juniper, and Palo Alto.

**Additional Experience:** Cybersecurity Bootcamp Teaching Assistant, UNC Charlotte

**Projects**

**Cyber Ranges | HacktheBox, TryHackMe, VulnHub, Project Ares, CTFs | 2019 to 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 Pentesting skills.
* Wrote a walkthrough for a box named NullByte from VulnHub.

**Udemy Courses | Web Developer Bootcamp, Python Bootcamp, Practical Ethical Hacking | 2020 to Present**

* Completed approximately 40% of the Python Bootcamp.
* Built some of my simple tools through hands-on experience with a lot of common tools.

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

* Developed essential penetration testing skills and methodologies, network and WebApp vulnerability assessment, exploitation with Metasploit, OSINT information gathering and recon, TCP/IP knowledge, etc.
* Passed the exam in less than 7 hours with a score of 90%.

**Cybersecurity Bootcamp Program (UNC Charlotte) | 2019 to 2020**

* 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.
* Comprised a site called Shadow Bank by enumerating the website and injecting payloads/exploiting SQL vulnerabilities to route money to your account from 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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| --- | --- |
| * **Junior Penetration Tester (eJPT)** | eLearnSecurity, 2021 * **Cybersecurity Certificate** | UNC Charlotte Continuing Education, 2020 * **Security+ ce Certification** | CompTIA, 2021 * **CSS Fundamentals** | SoloLearn, 2019 | * **HMTL Fundamentals** | SoloLearn, 2019 * **Interactive Coding for Beginners: What is CSS, HTML & Web Development** | BitDegree, 2019 * **Javascript Fundamentals** | SoloLearn, 2019 * **Learn HTML5 and CSS3 to Build a Website from Scratch** | BitDegree, 2019 |

**Technical Skills**

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

**Programming & Scripting**: Python, bash, zsh, YAML, json and PowerShell, Django rest API, Azure DevOps, Git, VSCode, nxlog, auditd, Sysmon, and VNC

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

**Systems**: Windows and Linux Administration, Windows and Linux hardening, Docker, containerization, VMWare, VirtualBox, Ansible, and System Configuration