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📍 Aurora, CO 80012

SUMMARY

Penetration Testing Architect with 15+ years guiding **offensive security** across applications, APIs, networks, **cloud environments**, **identity platforms**, and enterprise infrastructure. Hands-on work covers reconnaissance, enumeration, vulnerability analysis, controlled exploitation, post-exploitation, attack-path chaining, **source-code-assisted testing**, and security architecture review. Built repeatable methodologies, custom tooling, evidence standards, severity criteria, reporting practices, and remediation verification for AWS, Azure, Kubernetes, Active Directory, CI/CD pipelines, and distributed systems. Partnered with architects, developers, cloud engineers, and infrastructure teams to prevent vulnerability classes before production. Mentored penetration testers, reviewed high-risk reports, researched emerging vulnerabilities, and explained technical risk to varied stakeholders. Ready to help Northstar Offensive Security Group advance scalable testing, continuous validation, and practical architectural risk reduction.

EXPERIENCE

Penetration Testing Architect

March 2023 - Present

Cinder Peak Security

Boulder, CO

Set technical direction for offensive security across SaaS applications, APIs, AWS, Kubernetes, corporate identity, and internal infrastructure. Led high-risk assessments, established organization-wide standards, reviewed designs, built automation, and mentored eight testers without direct management authority.

- Set testing direction across SaaS, APIs, AWS, Kubernetes, identity, and internal **infrastructure** engagements.
- Created rules, evidence, severity, reporting, and retest **standards** for high-risk offensive security assessments.
- Chained IAM weaknesses, exposed secrets, and routing errors across AWS accounts to demonstrate administrative **attack paths**.
- Built Python and Go automation around Nmap, **Burp Suite**, cloud APIs, BloodHound, and custom payloads.
- Reviewed designs before release, strengthening authorization, secrets, segmentation, admission controls, and **CI/CD** supply chains.
- Mentored eight testers through **exploitation** challenges, report reviews, and unusual cloud identity findings.

Principal Offensive Security Engineer

January 2020 - February 2023

Blue Meridian Technologies

Austin, TX

Directed complex web, API, network, and cloud assessments for distributed financial-services platforms across Azure and on-premises environments. Combined source-code review, manual testing, identity analysis, CI/CD validation, report governance, and executive risk communication.

- Directed web, API, network, and cloud assessments across **Azure** and on-premises financial platforms.
- Combined source review, Burp Suite, ffuf, **sqlmap**, debugging tools, and scripts to expose logic defects.
- Modeled **Active Directory** paths with BloodHound and **PowerShell**, validating delegation weaknesses through controlled exploitation.
- Designed pull-request checks and authenticated API harnesses for **continuous security validation** within CI/CD workflows.
- Presented attack narratives to **architecture** councils, linking technical evidence with customer exposure and release risk.
- Established peer reviews for severity consistency and remediation evidence across security engagements.

Senior Penetration Tester

June 2017 - December 2019

Ironwood Digital Defense

Raleigh, NC

Executed production-scale assessments across customer-facing applications, REST APIs, Windows and Linux systems, cloud permissions, and hybrid identity environments. Combined manual analysis, safe exploit validation, **vulnerability research**, reporting, coaching, and remediation verification.

- Executed web, API, Windows, Linux, and hybrid identity tests under approved rules of engagement.
- Combined Nmap, Wireshark, Burp Suite, Metasploit, Nessus, ffuf, **Bash**, and **Python** for validation.
- Chained object references, session flaws, exposed interfaces, and cloud permissions across critical systems.
- Tested authentication, authorization, **access control**, **business logic**, TLS, and trust boundaries with reproducible evidence.
- Adapted emerging CVE proof-of-concept code for safe validation without disrupting production stability.
- Coached associate testers on **threat modeling**, attack paths, technical writing, and remediation verification.

Penetration Tester

August 2014 - May 2017

Redwood Signal Labs

Columbus, OH

Performed network, web, API, and infrastructure assessments for healthcare, retail, and manufacturing clients. Built reusable scripts, mapped identity relationships, validated findings, and translated **technical risk** into practical **remediation guidance**.

- Performed network, web, API, and infrastructure assessments across regulated client environments.
- Built Python and PowerShell scripts for **reconnaissance** across segmented **networks**, Windows domains, and Linux systems.
- Validated injection, **authentication**, configuration, and privilege findings with Burp Suite, Nmap, and **Metasploit**.

- Mapped Active Directory trust relationships and permissions into remediation-focused attack-path diagrams.
- Wrote executive and technical reports with severity rationale, fixes, verification steps, and compensating controls.
- Supported senior consultants during complex engagements and client readouts on systemic weaknesses.

Associate Security Consultant

September 2011 - July 2014

Harbor Ridge Security Consulting

Richmond, VA

Conducted supervised vulnerability assessments and penetration tests for web **applications**, enterprise networks, Linux servers, and Windows environments. Applied core network security concepts, validated exploitable findings, maintained evidence, and developed clear client communication skills.

- Conducted supervised web, network, Linux, and Windows assessments within approved consulting scopes.
- Applied **TCP/IP**, DNS, **HTTP/HTTPS**, TLS, routing, segmentation, and service knowledge to plan testing.
- Validated findings with Nmap, Nessus, Burp Suite, **Wireshark**, Metasploit, and Bash scripts.
- Documented authentication, **authorization**, injection, configuration, and privilege-escalation issues with reproducible evidence.
- Maintained engagement notes, evidence repositories, remediation trackers, and retest results for quality reviews.
- Presented selected findings to administrators and **developers**, supporting collaborative remediation planning.

PROJECTS

Continuous Cloud Security Validation Framework 📅 2024

Created reusable assessment workflows for AWS and Kubernetes trust boundaries, combining cloud APIs, identity analysis, evidence capture, and remediation verification for recurring validation.

Source-Assisted API Attack Path Methodology 📅 2022

Built a manual API testing approach joining source review, authorization analysis, business logic testing, and controlled exploit validation for distributed services.

Active Directory Identity Exposure Research 📅 2018

Mapped identity relationships with BloodHound and PowerShell, producing controlled attack scenarios that clarified privilege escalation risk and practical defensive priorities.

LEADERSHIP & AWARDS

- SANS NetWars Advanced Cyber Defense finalist, 2021
- Client Impact Award, Blue Meridian Technologies, 2022
- Security Research Recognition, Redwood Signal Labs, 2016

EDUCATION

Bachelor's Degree in Cybersecurity

2011

Virginia Commonwealth University GPA: 3.7

Richmond, VA

***Coursework:** Network security, secure software development, digital forensics, risk analysis*

CERTIFICATIONS

- Offensive Security Certified Expert (OSEP) 📅 2024
- GIAC Cloud Penetration Tester (GCPN) 📅 2025
- Offensive Security Web Expert (OSWE) 📅 2022
- Offensive Security Certified Professional (OSCP) 📅 2016
- GIAC Web Application Penetration Tester (GWAPT) 📅 2018

TECHNICAL SKILLS

- **Offensive Security Tools:** Burp Suite, Metasploit, Nessus
- **Network Assessment:** Nmap, Wireshark, TCP/IP
- **Web Testing:** OWASP, HTTP/HTTPS, TLS
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Identity Platforms:** Active Directory, IAM, BloodHound
- **Scripting Languages:** Python, Go, PowerShell
- **Shell Environments:** Bash, Linux, Windows
- **API Testing:** REST, authentication, authorization
- **Application Testing:** ffuf, sqlmap, source-code review

- **Container Security:** Kubernetes, admission controls, container security
- **CI/CD Security:** GitHub Actions, pull-request checks, supply-chain security
- **Reverse Engineering:** debugging tools, reverse-engineering tools, exploit development

SKILLS

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|-----------------------------------|--------------------------|-------------------------|----------------------------|
| • Penetration Testing | • Attack-Path Analysis | • Active Directory | • Technical Reporting |
| • Offensive Security Architecture | • Vulnerability Research | • CI/CD Security | • Remediation Verification |
| • Web and API Security | • Exploit Validation | • Supply-Chain Security | • Security Architecture |
| • Cloud Security | • Threat Modeling | • Reverse Engineering | |

PROFESSIONAL AFFILIATIONS

- OWASP Colorado Chapter volunteer speaker, 2023 - Present
- Mentor, University of Colorado Cybersecurity Clinic, 2021 - Present
- Contributor, Open Source Security Testing Community, 2018 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST