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# ANTHONY ROSA

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## COMPETENCIES

- Compliance Management (4 yrs)
- IT Documentation (4 yrs)
- Infrastructure Auditing (3 yrs)
- Agile Framework (3 yrs)
- Cyber Security Assessments (4 yrs)
- Scripting/Programming (5 yrs)
- Software Auditing (5 yrs)
- Network Hardening (4 yrs)
- Endpoint Security Design (4 yrs)
- Web Application Security (5 yrs)
- Exploit Analysis and Engineering (3 yrs)
- Proactive Threat Hunting (3 yrs)

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## CERTIFICATIONS

- CompTIA CySA+ (2023)
- CompTIA Security+ (2023)
- CompTIA A+ (2021)
- CompTIA ITF+ (2023)
- Confio GmbH CosmWasm Academy (2022)
- Web3 Builders' Association CosmWasm (2022)
- CareerFoundry Front End Development (2022)
- Google IT Support Professional (2021)
- USMC Link 16 Unit Manager (2021)
- Python Data Structures (2021)
- XML and XML Schema Definition (2020)
- USMC CDET Operational Security (2019)

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## SKILLS & TOOLS

- PowerShell (5 yrs)
- ProRat (1 yr)
- SCAP (2 yrs)
- STIGs (3 yrs)
- Anchor (2 yrs)
- Trufflehog (2 yrs)
- Rust (3 yrs)
- Python (3 yrs)
- Bash (5 yrs)
- Ubuntu (6 yrs)
- WindowsOS (5 yrs)
- MacOS (5 yrs)
- Kali (2 yrs)
- Github (6 yrs)
- Nikto (1 yr)
- ScoutSuite (1 yr)
- Wazuh [SIEM] (3 yrs)
- OSSIM [SIEM] (2 yrs)
- OSSEC [Linux HIDS] (2 yrs)
- Fortify (2 yrs)
- Sonarqube (2 yrs)
- Twistlock (2 yrs)
- Microsoft MHA (3 yrs)
- Loggly (2 yrs)
- Microsoft Exchange (4 yrs)
- Docker (2 yrs)
- Gitlab (3 yrs)
- Splunk (2 yrs)
- Nmap (2 yrs)
- Hashcat (1 yr)
- Nessus (4 yrs)
- Burp (2 yrs)

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## EDUCATION

- Master of Science, Norwich University (In-Progress, 50% Complete)
- Bachelor of Arts, University of Minnesota: Twin Cities, Dean's List

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## WORK HISTORY

**Booz Allen Hamilton**, Lead Engineer, 04/2023 - Present

Risk Assessment Analyst — As a Booz Allen Hamilton subcontractor, I have conducted numerous technical assessments, writing manual scripts to calculate compliance with DISA STIGs and NIST 800-53 controls. This includes analyzing 51 ESXi Virtual Machines, 5 ESXi Hosts, 2 vCenter deployments, 62 Windows Servers, 4 NX-OS switches, 5 Cisco IOS switches and routers, 18 Red Hat Enterprise Linux (RHEL) servers, and associated applications, such as Firefox, Microsoft Edge, .NET Framework 4.X, Microsoft Defender, Microsoft Firewall, and VMware tools. This has totaled over 5300 STIG checks, 380 tickets, 10 SIRs, and 7 CFC submissions completed. Tools I have used at this job include Splunk, Tenable SC+, STIG Viewer, ServiceNow, Netreo, Nessus Manager, and SCAP compliance checker.

**Moultrie Cryptography**, Founding Member, 09/2022 - 04/2023

Audits — I conducted 26 infrastructure audits for CPU providers and cryptographically signed 12. To perform these audits I used the Wazuh SIEM for compliance management and OSSIM (AlienVault) for event management and trend analysis. I also integrated Splunk for threat detection and as our primary forensic tool to automate event responses. I also performed 3 contracted audits for companies post-exploit. This threat hunting process involved local log analyzation with Splunk, email header analysis with Azure's MHA, and server log analysis with Loggly. After analyzing network and end user device logs, along with any other gathered IoCs, I generated full reports for the companies including timelines, remedatory actions, and training events for employees. These reports were used for legal reporting requirements. Lastly, I completed 3 SEC submissions which involved the reverse-engineering of a money laundering tool, setting up a live honeypot, and utilizing social engineering techniques to acquire individual's information, along with all required documentation and reporting.

Cryptography — Built the first Zero-Knowledge Proof smart contract in CosmWasm. This was integrated into multiple repositories for deployment in 2023.

**Electronic Warfare Officer**, United States Marine Corps, 05/2019 - 09/2022

Bravo One Hackathon — Built a communications application that won first place for "Most Tactically Relevant for Maintenance Data" and second place for "Most Tactically Relevant for Cyber Operations".

National Security Agency — Received the Navy and Marine Corps Achievement Medal for threat hunting actions in relation to cryptographic ransomware exploits related to incidents such as the Colonial Pipeline hack.

Platform One — Led a 2 day assessment and deployment sprint of a Mission app that directly supported the transfer of passenger and positional data from USAF Air Mobility Command (AMC) cargo planes to AMC senior leadership during the evacuation of over 123,000 refugees during Operation Allies Refuge. Led assessment, POAM, and post approval actions for 3 Artificial Intelligence applications. Led the assessment and authorization of 6 mission applications through the DevSecOps process. Completed the review and verification of 714 NIST 800-53 tasks for 17 applications. For security vulnerability assessment and remediation, I utilized Trufflehog for codebase checks, Fortify and Sonarqube as code analyzers, and Twistlock and Anchore for Docker image scanning.

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## ACCOMPLISHMENTS

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- Cryptography update merged into Red Hat Enterprise Linux (July 2024): [https://gitlab.com/redhat/centos-stream/rpms/shadow-utils/-/merge\\_requests/22](https://gitlab.com/redhat/centos-stream/rpms/shadow-utils/-/merge_requests/22)
- Booz Allen Hamilton Ferocious Integrity: Exemplary Client Service Award (June 2024)
- Booz Allen Hamilton Passionate Service: Exemplary Client Service Award (December 2023)
- Winner of 2022 DoD Bravo One Hackathon:  
<https://www.marines.mil/News/News-Display/Article/3156537/marine-officer-leads-joint-service-team-of-hackers-in-an-it-competition/>
- Built a functioning decentralized Wikipedia smart contract: <https://github.com/alxandria>
- Automated bash scripting experience, one example here:  
[https://github.com/tacolopo/audit-academy/blob/main/automated\\_deployments/auto\\_deploy.py](https://github.com/tacolopo/audit-academy/blob/main/automated_deployments/auto_deploy.py)
- Commits in cosmos/gaia, CosmWasm/cw-template, Callum-A/cosmwasm-zero-to-hero, 0xriku/rust-cargo-cheatsheet, osmosis-labs/docs, cosmology-tech/cosmos-kit, ovrrcl/awesome-akash, InterWasm/docs, cosmos/chain-registry, cosmos/sdk-tutorials, ovrrcl/docs, maxmaxlabs/cloudmos-deploy, and vendorsec/mvvp
- Military Accolades: Navy and Marine Corps Achievement Medal, Global War on Terrorism Medal, National Defense Service Medal, USS Minnesota Award, American Legion Military Excellence Award, National Sojourners Americanism Award
- Economic research published in Open Science Journal (<https://osjournal.org/ojs/index.php/OSJ/article/view/2633>) and Sociological research published in American Journal of Multidisciplinary Research and Development (<https://www.ajmrd.com/wp-content/uploads/2021/12/F3115356.pdf>)