

Amber Carvalho

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Career Summary

I'm a cybersecurity engineering leader, transforming data into strategic defense. With 6+ years scaling analytics programs in the Air Force and at T-Mobile, I've consistently turned Petabyte-scale telemetry into quantifiable risk reduction. My specialty is building human-AI workflows in Azure/Python/Splunk that make security proactive.

Skills

Generative AI Dev, Log Orchestration, MTTR Reduction, Security Analytics, SIEM Optimization, Team Leadership

Professional Experience

Cybersecurity Data Platform Analytics Engineer | 06/2024 - 08/2025 | T-Mobile US | Seattle, WA

- Led generative AI development for Cyber Operations, deploying 8 AI-driven workflows that reduced false positives by 20% and SOC mean time to respond (MTTR) by 30% through automated log analysis.
- Managed threat detection log infrastructure across Azure/AWS/on-prem environments, onboarding 100+ customer log streams that generated 1,000+ SOC alerts and coordinating 20 engineers across 3 teams.
- Pioneered T-Mobile's first enterprise Cybersecurity Analytics program to optimize SIEM efficacy, implementing storage tuning and detection rule improvements across 5+ PB of telemetry data.
- Enhanced security posture during SIEM platform migrations by designing log ingestion standards and detection logic that reduced alert fatigue by 25% across Sentinel and Splunk deployments.

Enterprise Cybersecurity Threat Analyst | 08/2021 - 07/2024 | United States Air Force | Langley AFB, VA

- Secured a global network of 800k users across three classified domains, responding to over 100 incidents.
- Directed multi-team bespoke SEIM training, automating threat intelligence and saving 1.2K hours yearly.
- Led global upgrade of 76 domain controllers across 20 locations, extending network support by 5 years.
- Authored Python/PS script with open-source tools, detecting 100+ weak passwords in Active Directory.
- Pioneered adoption of Scrum (agile) for project management, boosting mission completion rates by 32%.

Enterprise Security System Technician | 07/2019 - 08/2021 | United States Air Force | Langley AFB, VA

- Overhauled endpoint management systems, strengthening network security across 1.2 million devices.
- Upgraded and secured 20k hosts, providing insights to leadership and achieving enhanced system visibility.
- Organized the resolution of a global network outage, restoring operations and maintaining continuity.
- Restored functionality to a vital flight component within 24 hours, supporting key military airspace operations.
- Conducted extensive security reviews and headed training sessions, addressing high-risk vulnerabilities.

Education

BS, Cyber and Data Security Technology | The University of Arizona Global Campus | 05/2024 | Chandler, AZ

- 3.99 GPA; Summa Cum Laude Graduate
- Dean's List Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, and Spring 2024
- Alpha Sigma Lambda & SALUTE Veteran's National Honor Society Member

Airman Leadership School | Barnes Center for Enlisted Education | 12/2023 | Langley AFB, VA

- Honed leadership and supervisory skills essential for professional advancement.
- Boosted team management and conflict resolution abilities, preparing for advanced leadership roles.

AAS, Information Systems Technology | Community College of the Air Force | 11/2021 | Montgomery, AL

- 4.0 GPA; Distinguished Graduate

Certifications

CompTIA Advanced Security Practitioner (CASP+) / SecurityX

- Certification ID: KFCVPJQ59MV42EXJ
- Valid through May 2028

CompTIA Cybersecurity Analyst (CySA+)

- Certification ID: 19S3XQYZDN411F3K
- Valid through May 2028

CompTIA Security+

- Certification ID: NDP055QG0PEQ10C1
- Valid through May 2028

Pearson IC3 Digital Literacy IL4

- Certification ID: w9bso-HaEW

Awards

Air and Space Accommodation Medal | 2024

- Attained for leading cyber-attack pattern analysis, identifying tactics and developing detection measures.
- Recognized for directing responses to critical system outages and data leaks, safeguarding data integrity.

Air Force Information Dominance Outstanding Mission Defense Activities Airman | 2023

- Honored for outstanding contributions in cybersecurity at both squadron and group levels.
- Recognized for building robust solutions, securing critical assets, and bolstering mission readiness.

Air Force Achievement Medal | 2021

- Earned for exemplary performance in endpoint security, achieving a perfect score in a major inspection.
- Recognized for expertise in attack sensing, malware protection, and incident response.

Volunteer Experience

BS in Cyber and Data Security Technology Program Advisory Board Member | 10/2024 - Present

- Providing strategic insights to enhance cybersecurity curriculum, preparing for ABET accreditation.
- Fostering industry connections to strengthen relationships with alumni, students, and military groups.

Diversity, Equity, Inclusion, & Accessibility Facilitator Training Team Lead | 10/2022 - 05/2024

- Launched the first military DEIA facilitator training initiative, developing facilitators across five bases.
- Led groundbreaking DEIA program development, influencing conversations across multiple branches.

Diversity, Equity, Inclusion, & Accessibility Program Co-Lead | 05/2022 - 05/2024

- Co-led initiatives in my unit, organizing group events and educating the workforce on diverse topics.
- Collaborated in managing DEIA suggestions and complaints to promoting workplace equity and inclusivity.