

Axel Carmelo Alvarez

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Education

Texas Tech University, Edward Whitacre College of Engineering

Lubbock, TX

Bachelor of Science, in Computer Science

- Minor in Mathematics
- President & Deans Honors List Recipient

Technical Skills

Cloud Security: AWS Security Hub, AWS GuardDuty, CrowdStrike Falcon, AWS CloudWatch, AWS Cloudtrail

Automation: Python, GraphQL, Terraform, CI/CD Pipelines, Gitlab, Docker

Vulnerability Scanners: Trivy, Semgrep, Burp Suite, OWASP Zap

Identity access management: AWS IAM, Okta, Google Workspace

Governance Risk and Compliance: NIST SP 800-53, NIST SP 800-30, DISA STIGs, STIGViewer

Programming and Scripting: Java, Bash, PowerShell, YAML, Git

Professional Experience

Army Software Factory, Austin, TX (Remote)

Oct. 2023 - Present

Security Engineer

- Collaborated with internal teams to achieve over a 15% increase in compliance grade to cloud enclaves in accordance with security compliance publications such as NIST SP 800-53.
- Utilized CrowdStrike SIEM, AWS CloudTrail, and AWS CloudWatch to aggregate logs and improve monitoring capabilities via alerting and detection rules.
- Wrote Terraform code to create, modify, and delete cloud resources via automated CI/CD pipelines to improve efficiency and speed of repeatable processes.
- Participated in incident response drills and tabletop exercises to map out threats and test effectiveness of playbook documentation.
- Deployed application security testing scanners to CI/CD pipelines to automate vulnerability scanning and speed up DevSecOps processes like secure code integration and continuous deployment for product teams.
- Identified and advised on the triage of hundreds of vulnerabilities using a multitude of security tools like Semgrep, Burp Suite, and Trivy to improve the overall security posture of cloud resources and deployed web applications.

iCode Specialty School, Sugarland, TX (On-Site)

Jun. 2023 – Sep. 2023

Programming Teacher

- Taught over 5 classes and 45 students the basics of programming in python, vanilla web development using javascript, html, and css, as well as other technical topics surrounding computer science.
- Created lesson-plans and coding problems to students allowing them to practice and apply their newly learned skills to improve knowledge retention and competency.

Certifications

COMPTIA Security+