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: IAM, AWS Security Hub, AWS GuardDuty
Logging and Monitoring: CrowdStrike Falcon, AWS CloudWatch, AWS Cloudtrail
Vulnerability Scanners: Trivy, Semgrep, Gemnasium, Burp Suite, OWASP Zap
Automation: Python, CI/CD Pipelines, GraphQL, Terraform, Gitlab, Docker
Programming and Scripting: Java, Bash, PowerShell, YAML, GraphQL

Professional Experience

Army Software Factory, Austin, TX (Remote)   October 2023 - Present
Security Engineer
- Collaborated with internal teams to achieve over a 15% increase in compliance grade to production and developmental cloud enclaves in accordance with common security compliance frameworks such as NIST SP-800-53 and ISO 27001.
- Utilized CrowdStrike SIEM, AWS CloudTrail, and AWS CloudWatch to aggregate logs and improve monitoring capabilities via alerting and anomaly detection for cloud resources, IAM roles, and containerized resources.
- Wrote Terraform Infrastructure as Code to modify cloud resources via CI/CD pipelines.
- Participated in incident response drills and tabletop exercises to map out threats and test effectiveness of playbook documentation.
- Deployed SAST and DAST scanners to application CI/CD pipelines to automate vulnerability scanning and speed up secure code integration and 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.
- Performed manual code review and audits for over 10 web applications on a regular basis to ensure compliance to application development STIGS.

iCode Specialty School, Sugarland, TX (On-Site)   June 2023 - October 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.
- Authored 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+