Grant Thomas

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Portfolio: github.com/Grantgthomas.github.io

PROFESSIONAL EXPERIENCE

Product Security Engineer
Avalara

May 2023 – Present
New York, NY

- **DAST Scanner Kubernetes Migration** - Successfully migrated a DAST scanner application to a Kubernetes deployment and automated deployment process through a CICD pipeline, saving the company $170,000 annually in logging, operating, and hosting costs.
- **SCA Scanner Bake Off** - Developed testing criteria, created a testing environment, and configured multiple SCA tools to evaluate which Software Composition Analysis tool would best meet organization requirements.
- **Security Tool Consultation** - Provide remediation advice and clear explanations for findings identified through a suite of security tools including DAST, SAST, IAC, and SCA scanning tools, working with software developers daily.
- **CICD DAST Scanner Onboarding** - Reduced the time to onboard applications to a Dynamic Application Scanner by 90% through CICD pipeline automation.
- **Automated Security Tool Offboarding** - Eliminated a manual process for the Appsec team and developers organization-wide through automation, removing gitlab repository data from security tools when the repository is archived.

Senior Cybersecurity Consultant
Crowe LLP

Aug. 2020 – May 2023
Dallas, TX

- **Threat to Risk Program** - Led the creation of a threat modeling program, coordinating efforts from three client information security teams to identify novel threats and implement specific controls within the organization.
- **Application Risk Assessments** - Conducted multiple holistic risk assessments of enterprise web applications to identify cybersecurity risks and ensure compliance with widely used frameworks such as NIST 800-53 and HIPAA.
- **Password Categorization Web App** - Automated the process of identifying weak passwords extracted from Active Directory to streamline the process of performing a cybersecurity assessment.

SOFTWARE EXPERIENCE

Security Tools: Kali Linux, Acunetix (DAST), Mend (SCA), CheckMarx (SAST), IriusRisk, Wiz, Prisma Cloud, Grafana Loki (Logging), Sumo Logic (Logging), Burp Suite, Tenable Nessus, VMWare Workstation
Cybersecurity Frameworks: NIST 800-53 Rev.5, HIPAA, Mitre ATT&CK Framework
Programming Languages: Shell script, Python, Golang, Powershell, Java, Javascript, C#, C, SQL, MongoDB, HTML, CSS
Developer Tools: Kubernetes, Git, Terraform, Docker, AWS, VS Code, Postman, Jira, Trello

PROJECTS

Workday Job Application Bot | *Python, Selenium, Javascript*
- Leveraged Python's selenium library to automate workday job applications reducing application completion time by 95%
- Engineered an algorithm that interprets and answers questions on Workday job applications based on pre-defined user answers
- Implemented a custom JSON data structure that stores user data and answers to potential job application questions

Parking RPA App | *Golang, Python, Docker, SQLite, Selenium*
- Using Python, developed a script to automatically register and notify users via email for a parking spot
- Utilized a Golang command and control API to manage the automation process and update the database for the application

EDUCATION

Purdue University
B.S. in Cybersecurity

Aug. 2016 – May 2020
West Lafayette, IN