

JACOB M. SHODD

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WORK EXPERIENCE

Application Security Engineer

Aug. 2020 - Current

SmartSheet

- Lead the code analysis program, which included SAST, container scanning, dependency analysis, and more
- Reproduced bugs, prioritized vulnerabilities, and communicated with researchers for the Bug Bounty program
- Lead technical training initiatives and aided in management of the Security Champions program
- Worked closely with the compliance team to provide recommendations and guidance for meeting compliance standards
- Performed root cause analysis investigations on bugs found in the Bug Bounty program as well as penetration tests
- Lead Threat Modeling sessions with development teams to identify possible threats before pushing code to production
- Represented the security team when working directly with customers and answering technical security questions

Security Engineer

July 2019 - Aug. 2020

Red Ventures

- Developed and delivered threat modeling training materials to our internal development teams
- Performed security assessments on multi-cloud environments as part of the Mergers and Acquisitions process
- Performed infrastructure and application penetration tests for our internal operations and development teams
- Wrote custom tooling to scrape data from AWS accounts and aggregate over that data to identify vulnerabilities
- Wrote reports after performing a risk assessment summarizing all findings, their priority, and possible solutions
- Acted as a solutions architect for the security team in helping design tooling and automation in AWS

Platform Engineer

Feb. 2018 - July 2019

Red Ventures

- Managed an AWS environment of 250 accounts, utilizing Terraform Enterprise as an Infrastructure as Code system
- Developed automated systems via Python and Golang to perform operations across all AWS accounts
- Designed, developed, and deployed highly available and scalable ECS applications using AWS Fargate
- Built out a HIPAA Compliant framework in AWS and migrated an existing production and staging environment to it

Operations Engineer

May 2017 - Feb. 2018

*M*Modal*

- Created an internal web application using Golang to act as a reporting and alerting portal
- Implemented a Prometheus monitoring framework in Kubernetes clusters across several data centers
- Deployed production code with Kubernetes and performed profile data migrations between databases

MENTORSHIP

Engineering Mentor

May 2018 - Current

Road to Hire

- Helped guide and teach aspiring engineers about software engineering and the Tech industry as a whole
- Worked through technical skills such as programming, databases, networking, security, and web applications
- Outside of technical work we also cover soft skills such as professional networking, practice interviews, time management

CERTIFICATIONS

Offensive Security Certified Professional

Dec. 2019

Offensive Security

EDUCATION

Bachelor's of Science in Computer Information Systems

Aug. 2013 - May 2017

Westminster College