JACOB M. SHODD

(724)-510-6059 • work@jacobshodd.com • jacobshodd.com

WORK EXPERIENCE

Security Engineer *July 2019 - Current*
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
- Served as a consultant for internal development teams to recommend best practices and to architect solutions

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
- Wrote, maintained, and utilized Python scripts to automate tasks and process data
- Deployed production code with Kubernetes and performed profile data migrations between databases

CERTIFICATIONS

Offensive Security Certified Professional *Dec. 2019*
Offensive Security

- Utilized penetration testing techniques in a realistically segmented multi-network lab environment
- Made use of industry standard tools such as Nmap, Burp Suite, Metasploit, and SQLMap
- Proved proficient in network enumeration, web application attacks, privilege escalation, exploit development, etc.
- Passed the 24 hour exam, in which I successfully compromised all five targets and wrote a comprehensive report

Solutions Architect Associate *July 2018*
Amazon Web Services

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

EDUCATION

Westminster College *Aug. 2013 - May 2017*
Bachelor's of Science in Computer Information Systems