

JACOB M. SHODD

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WORK EXPERIENCE

Security Engineer

July 2019 - Current

Red Ventures

- Threat modeled infrastructures from several cloud providers before integration to our systems (M&A)
- 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 HIPPA 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

- Learned and practiced 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

Developer Associate

Nov 2017

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