

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

Offensive Security Certified Professional

Rapid7

InsightIDR Certified Specialist

AWS

Solutions Architect Associates, Developer Associate

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

PROJECTS

Gobot

[website.url/goes/here](#)

Golang & AWS

- Created a SlackBot to react to slash commands in a Slack community with 6,600 active users
- Deployed to Amazon's serverless Lambda system and is triggered through Amazon's API Gateway

Sigma Swiper

[website.url/goes/here](#)

Python

- Wrote an application to log guest entry by swiping student ID cards while checking against a guest list
- Built a custom touch screen raspberry pi kiosk for the program to run on, utilizing QT for the user interface

EDUCATION

Westminster College

Aug. 2013 - May 2017

Bachelor's of Science in Computer Information Systems