JACOB M. SHODD

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EDUCATION

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

WORK EXPERIENCE

Platform Engineer *Feb. 2018 - Current*
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 ECS Fargate
· Built out a HIPPA Compliant framework in AWS and migrated an existing production and staging environment to it
· Deployed software and Infrastructure using Terraform Enterprise, Jenkins, and Deployfish

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

PROJECTS

Gobot *http://jacobshodd.com/project/goBot*
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

Guest Mapper *https://github.com/jshodd/guestMapper*
Golang & Neo4J

· Created a REST API to interact with a graphing database to map my relationships with wedding guests

Sigma Swiper *http://jacobshodd.com/project/sigmaSwiper/*
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

Penetration Test
Senior Capstone

· Used tools like Nmap, Hydra, and Ettercap to test areas such as VNC, LDAP, and user password strength
· Wrote a custom python script using Scapy to capture VNC packets and display all of a target's keystrokes

CERTIFICATIONS

AWS Solutions Architect Associates, Developer Associate
OSCP In Progress

SKILLS

Programming Languages Golang, Python Java, SQL, Bash
Software & Tools Nmap, Netcat, Burp Suite, GoBuster, SQLMap, Nikto