

JACOB M. SHODD

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EDUCATION

Westminster College

Bachelor's of Science in Computer Information Systems

Aug. 2013 - May 2017

WORK EXPERIENCE

Operations Engineer

*M*Modal*

May 2017 - Current

- 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

IT Intern

Treloar and Heisel

Aug. 2016 - Mar. 2017

- Performed a security assessment and discovered three critical operational vulnerabilities
- Reduced time required to run monthly financial reports by 97% using a scripting framework
- Wrote Python scripts to automate multiple administrative and tedious tasks

IT Intern

Thales Transport and Security

May 2016 - Aug. 2016

- Wrote a Powershell script to automate common Active Directory tasks
- Designed a diagram of the server room including all connection paths in Visio
- Handled all incoming help request tickets for an office of 90 employees

PROJECTS

Gobot

Golang & AWS

<http://jacobshodd.com/project/goBot>

- 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

Golang & Neo4J

<https://github.com/jshodd/guestMapper>

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

Sigma Swiper

Python

<http://jacobshodd.com/project/sigmaSwiper/>

- 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

Amazon Web Services

Certified Developer Associate

SKILLS

Programming Languages

Golang, Python, Java, SQL, Bash

Software & Tools

Kubernetes, Docker, Prometheus, Virtual Box, Linux, Git, PostgreSQL