

# JACOB M. SHODD

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## WORK EXPERIENCE

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### Application Security Engineer

Aug. 2020 - Current

*SmartSheet*

- Lead the code analysis program, which included SAST, container scanning, dependency analysis, and more
- Reproduced bugs, prioritized vulnerabilities, and communicated with researchers for the Bug Bounty program
- Lead technical training initiatives and aided in management of the Security Champions program
- Worked closely with the compliance team to provide recommendations and guidance for meeting compliance standards
- Performed root cause analysis investigations on bugs found in the Bug Bounty program as well as penetration tests
- Lead Threat Modeling sessions with development teams to identify possible threats before pushing code to production
- Represented the security team when working directly with customers and answering technical security questions

### Security Engineer

July 2019 - Aug. 2020

*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

### 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
- Deployed production code with Kubernetes and performed profile data migrations between databases

## MENTORSHIP

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### 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

## CERTIFICATIONS

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### Offensive Security Certified Professional

Dec. 2019

Offensive Security

## EDUCATION

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### Bachelor's of Science in Computer Information Systems

Aug. 2013 - May 2017

Westminster College