

Jarod DeWeese

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Silver Spring, MD
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Education

Kansas State University
Bachelor of Science, Computer Science

Graduation Date: **Dec. 2020**
GPA: 3.64

Skills

- **Programming Languages:** Python, Kubernetes, Terraform, Shell
- **Technologies:** Jenkins, AWS, Hashicorp Vault, CloudHSM

Experience

Zoom Video Communications

Senior Security DevOps Engineer February 2024 – Present

Security DevOps Engineer August 2022 – February 2024

- Replaced a high-cost kernel patching solution with a custom Django/Postgres platform to orchestrate safe reboots of 20K production servers. The system supports per-team YAML configs for scheduling, pool sizes, and backoff logic - while significantly reducing infrastructure spend
- Deployed and developed infrastructure improvements for Zoom's End to End Encrypted (E2EE) meeting service, internal cryptographic secret management service, and Hashicorp Vault installation. All of these were deployed on distributed, autoscaling, highly available Kubernetes clusters.
- Rearchitected failover process for E2EE meeting service, reducing downtime from 50 minutes to ~4 minutes as well as orchestrating this process with Jenkins, improving quality of life for on-call engineer.
- Responsible for uptime of AWS CloudHSM cluster used by one of Zoom's largest financial customers. Performed troubleshooting & diagnosis for internal teams integrating with the HSM.
- Created automated, one-click pipelines for provisioning HSM backed TLS certificates, infrastructure deploys and common admin operations for Zoom's CloudHSM clusters, automating several intensely manual administrative processes. This saved ~10 hours a month and lowered barrier to entry for new developers to learn the service.
- Developed standardized Python CLI tools to replace Makefile/Bash deployment scripts for several Zoom services. As a result, engineers are able to easily switch context into different projects, reducing siloing, and allowing for robust, battle-hardened design patterns to spread through the organization.
- Designed and implemented various CI/CD pipeline improvements to provide developers faster feedback as to the status of their builds, performance improvements, automatic creation & testing of MRs to update outdated components, saving hours every week on routine upgrades.
- Maintained company's Jenkins CD controllers.
- Participated in on-call rotation
- Language/Frameworks: Kubernetes, Terraform, Python, Shell, Jenkins, AWS, Hashicorp Vault.

Zoom Video Communications, Overland Park, KS

February 2021 – August 2022

Support Systems Engineer

- Designed tooling and build pipeline to streamline release process, reducing manual errors in deployments and decreasing deploy times by 75%
- Identified & mitigated security vulnerabilities, secret leaks, common web server configuration issues in our stack and created documentation to share secure development practices with teammates.
- Identified security vulnerabilities, common web server configuration issues in our stack and worked with developers to remedy issues.