

DEON ZOSS

DevOps ~ SRE Engineer

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SUMMARY

Over five years of experience with designing, implementing, and maintaining scalable infrastructure solutions. Talented at automating, troubleshooting, and ensuring the reliability of critical applications. Proficient in a wide range of tools and a broad set of skills, with an emphasis on k8s orchestration

SKILLS

Tools: Kubernetes, Ansible, Linux, Gitlab CI/CD, Docker, Helm/Kustomize, Artifactory, FluxCD/ArgoCD, Prometheus, Grafana, Envoy, Linkerd, Puppet, Vector, ELK stack, Hashicorp Vault, AWS, Github Actions, Terraform

Languages: Python, C++, Java, Perl

EDUCATION

2015 - 2019

University of Illinois at Chicago
BS Degree in Computer Science

EXPERIENCE

10/2021 - Present **DevOps Engineer / SRE Engineer / Release Engineer / Platform Engineer** NMI - remote

- Releasing to, monitoring, administrating and maintaining on-prem Kubernetes clusters
 - Creating Kubernetes kustomize overlays and helm charts from gathered specs, collaborating with development teams, performing code reviews
 - Streamlining deployment out to both on-prem (RHEL) and cloud (GKE) k8s using large assortment of CI/CD tools
 - Writing Ansible roles to provision and patch on-prem multi-control plane node production-grade Kubernetes clusters
 - Containerizing applications with docker
 - Setting up observability with tools like Prometheus, Grafana, and the ELK stack
 - Administrating Artifactory servers
 - Load balancing configuration, handling ingress into k8s with Envoy Proxy, enabling a Linkerd service mesh in k8s between services
 - Administrating Hashicorp Vault servers, injecting secrets into containers running in k8s clusters
 - Writing Python scripts to automate a variety of tasks
 - Solely responsible for code releases out to sensitive, complicated production environments
 - Troubleshooting linux hosts, low-level operating system work, hypervisor work
 - Participating in an On-call rotation to address OpsGenie, Slack alerts as they come in
- Kubernetes / Ansible / Linux / Gitlab CI/CD / Envoy Proxy / Linkerd / GCP/GKE / Python / FluxCD/ArgoCD / Kustomize/Helm / Prometheus / Grafana / Docker / ELK stack / Artifactory / Vector / Databases / JIRA / Slack / k9s / Hashicorp Vault / PHP Puppet / Confluence / RabbitMQ

4/2019 - 10/2021 **Systems Engineer / DevOps Engineer** Sunrise Futures, LLC - Chicago

- Created Ansible roles to maintain and provision RHEL servers
 - Developed Python, Perl, and Bash scripts to automate stages of deployment to production environments, to handle storage and rolloff of sensitive market data, to build developer's test environments, and to build out trading applications based on given specifications
 - Maintained and helped develop a crucial load balancing C++ application to ensure fair resource utilization for competing traders within the firm
 - Developed bespoke monitoring applications written in Java to ensure health of servers and applications
 - Administered company's SVN (Subversion) codebase
 - Worked closely with quants to gather specs and deploy their trading strategies
 - Identified and created solutions for various bottlenecks to achieve an ultra-low latency environment
 - Made low-level OS kernel changes, configured FPGA's and Solarflare network cards.
 - Participated in an On-Call rotation to address any issues relating to various trading applications
- Ansible / Linux / Python / Java / SVN / C++ / Perl / SQL / Bash

PROJECTS

2025

Portfolio website (deonzoss.com)

My website is built from scratch. It is hosted in AWS ECS, spun up with Terraform, hosted via nginx running in a Docker container that is built and shipped in the pipeline using Github Actions. Check out my site for more projects/articles, and info about me!