



Introduction

Hi 🙋,

My name is Joseph Stout, everyone just calls me Joey. On the tech side I love Kubernetes, OpenTofu, CNCF, The Cloud, and writing software. I would thrive in an environment where I can dive into any type of code on a daily basis. On the personal side I love hockey, cold weather, snakes, outer space, and spending time with my family. I can talk about the Columbus Blue Jackets for as long as you would like.



Tools

- **AWS:** EKS, ECS, ECR, IAM, KMS, S3, Cloudfront, EC2, Cloudwatch, EFS, Aurora, RDS, SQS, SNS, GuardDuty, Inspector, VPC, Secrets Manager, Lambda, API Gateway.
- **Coding:** Python, Typscript, Javascript, Golang, YAML, NodeJS, React, React Native, Git, Github, Bash, ZSH, gRPC.
- **Kubernetes:** Kubernetes, FluxCD, ArgoCD, Flagger, Docker, Helm, Helm Charts, FluentD, Grafana, Open Telemetry, Open Metrics, External Secrets Operator, Isio, LinkerD, AWS CNI, Cilium, OPA, OPA Gatekeeper, Kyverno, Sigstore Cosign, ContainerD, CoreDNS, ETCD, Harbor, Prometheus, Crossplane, Rafay.
- **Tooling:** OpenTofu, Terraform, Spacelift, Terraform Enterprise, Ansible, Ansible AWX, Vault, Backstage, Mozilla SOPS.
- **Other:** Redis, Cloudflare, Datadog, Sumologic, AppDynamics, Jenkins, Github Actions, Linux, Postgres, MySQL, Sentry, Windows, Wordpress.

Experience

- Led the deployment of Kubernetes platforms that are HIPAA, FedRAMP, and PCI compliant, ensuring adherence to all security controls and guidelines.
- Collaborated with cross-functional teams to design and implement reusable CI/CD pipelines, resulting in a more efficient and streamlined deployment processes.
- Educated engineers unfamiliar with Kubernetes on best practices and guided them through full adoption of the platform.
- Leveled up manual workflows by introducing and implementing canary deployments, GitOps best practices, and OpenTofu.
- Created reusable base helm charts that stood as the template for many different application deployments.
- Mentored team members on best practices and technologies, fostering a culture of continuous learning and professional development.
- Implemented monitoring and logging solutions to provide real-time visibility into Kubernetes performance and security, ensuring rapid incident detection and response.
- Created an incident response framework implemented organization wide, leading to swift resolution and minimal impact on system availability and performance.
- Optimized Kubernetes resource utilization, ultimately reducing infrastructure costs by 40%.
- Designed and implement OpenTofu/Terraform modules to create infrastructure as code (IaC) for AWS resources, ensuring consistent and repeatable deployments.
- Implemented GitOps workflows using FluxCD and ArgoCD, enabling continuous delivery of application changes.
- Implemented auto-scaling and load balancing for critical applications, enhancing fault tolerance and performance.
- Collaborated with cross-functional teams to design and implement shared infrastructure components.
- Conducted internal workshops and knowledge-sharing sessions.
- Built a documentation portal for the Kubernetes open source communities. (manifests.io)
- Built enterprise grade tooling for DevX purposes.

Contact

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Work History

- I. **Lead DevOps Engineer** - Updater Inc
- 08/2021 - Present
- II. **Senior SRE** - Beam Dental
- 02/2019 - 08/2021
- III. **DevOps Analyst** - MoveHQ
- 10/2015 - 02/2019