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## Summary

Staff DevOps and Platform Engineer with 11 years of multi-platform and on-prem infrastructure experience. Primary Terraform and IaC owner across 100+ AWS accounts, supporting 70+ engineers within a 300-person medical software organization. Delivered complex platform tooling, CI/CD pipelines, VCS management, and Kubernetes IaC at scale – with deep expertise in disaster recovery planning and cloud cost optimization.

## Technical Skills

Platform: AWS, Terraform, Kubernetes, Docker, Ansible, MySQL, PostgreSQL, GitLab

Software: Python, Golang, Node.js, Bazel, GitLab CI/CD, GitHub, Okta, Prometheus, Grafana

## Professional Experience

Staff Software Engineer – GRAIL Inc (Biotech, Cancer Detection) | Raleigh, NC | June 2020 – March 2025

- Primary Terraform/IaC owner for 4 years, architecting a library of reusable modules adopted as the company standard across 100+ AWS accounts, primarily provisioning interconnected EKS environments supporting 50+ cloud SaaS services for thousands of medical customers.
- Maintained a >1TB Bazel monorepo over 4 years, authoring custom macros, AWS Authentication, Terraform, Helm, Docker build and deployment rules, and reusable build libraries, standardizing infrastructure patterns across Linux and Darwin environments.
- Led a 3-year GitLab migration from a self-hosted VCS and Buildkite CI/CD system, converting unmaintainable legacy pipelines one-by-one to GitLab CI, training the entire development staff, and serving as chief CI/CD architect for the duration.
- Designed and delivered an AWS CLI authentication tool adopted by 500 employees – identified the problem independently, drove it from concept to production, managing the full PyPI package lifecycle via GitLab CI with distribution through Artifactory, integrating Okta MFA across 70+ AWS accounts into a single-session SSO experience.
- Reduced AWS spend by \$200K/year through a two-month audit across 10 accounts, identifying overprovisioned EC2, Redshift, and RDS Aurora resources.
- Owned the full Kubernetes platform layer across 4 cloud platforms and 7 parallel environments – including cluster orchestration, ingress, load balancing, DNS, VPC, secrets management, security hardening, and inter-app authentication. Designed all Helm deployment charts and CI/CD integration patterns for 50+ services, plus monitoring dashboards and database management, serving as the primary IC for 4 years.

Senior DevOps Engineer – Balbix Inc (Cyber Security) | San Jose, CA | June 2019 – June 2020

- Infrastructure Lead for the development of an expansion to AWS from on-prem to support an innovative cyber-risk and exposure management SaaS product and agents.

- Diagnosed and drove resolution of a critical Aurora RDS instability – identified a PostgreSQL slow query as the root cause, proposed and implemented a compute scaling strategy to maintain stability under projected 6-month growth, and coordinated application refactors to lower costs.
- As one of two founding DevOps engineers, imported all hand-created AWS resources into a new idempotent Terraform repository, establishing repeatable account provisioning from scratch.
- Delivered a customer-facing AWS ECS frontend as part of a cross-functional tiger team, owning Docker resources, CI/CD, and Terraform infrastructure.

#### DevOps Manager / Engineer – Reputation (Marketing) | Menlo Park, CA | May 2017 – June 2019

- Owned 50 production services and a 1TB+ MongoDB cluster, coordinating all production infrastructure deployments, including database migrations and software deployments.
- Handled 24/7 PagerDuty on-call scheduling, constructed Grafana monitoring dashboards across Elasticsearch and Sumo logging for a SaaS platform serving 500+ enterprise customers.
- Rearchitected core legacy Ansible deployment scripts over 2 years, reducing deployment time from 4 hours to 40 minutes by introducing base AMIs, autoscaling groups, blue/green deployments via target groups, and parallelized Ansible execution.
- Managed a distributed DevOps team of 4 across the US, India, and Chile.
- Reduced Ansible technical debt by 20% by refactoring a decade of shell-heavy playbooks into reusable roles.

#### Lead Infrastructure Engineer – Outward Inc (3D Visualization) | San Jose, CA | February 2015 – April 2017

- Led an on-prem IT and infrastructure team of 4 plus 2 interns, overseeing hiring, development, and operations for a 3D asset rendering product.
- Scaled an on-prem render farm from 20 to 80 workstations supporting thousands of daily renders, managing all systems, networking, and hardware infrastructure by hand.
- Resolved a severe LAN latency issue traced to a bug in Blender's C source code, building a C# utility to manage network drive attachment and eliminating the bottleneck.

#### DevOps Engineer – Lightspeed POS System (Sales SaaS) | Santa Cruz, CA | October 2013 – October 2014

- Infrastructure engineering and deployment using LAMP, Chef, Ansible, and AWS.

#### IT Administrative Assistant – Hurricane Electric (Colo + ISP) | Fremont, CA | June 2012 – October 2013

- IT support for colocation centers: hardware, OS, and networking support.

### **Education**

San Jose State University – B.A. Political Science, Minor Environmental Science | 2010