

Leonardo Mullins

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SUMMARY

Senior DevOps Developer with 8+ years building reliable cloud and edge platforms for robotics, **warehouse automation**, **industrial systems**, and distributed software products. Experience spans AWS, GCP, Azure, **self-hosted Kubernetes**, Docker, Terraform, Ansible, ArgoCD GitOps, Linux, networking, **CI/CD**, observability, and Go automation. Delivered hybrid infrastructure that connects warehouse deployments with centralized engineering services, supporting real-time operational demands across 14 sites. Translates difficult infrastructure issues into clear decisions for backend, frontend, field operations, and global stakeholders. Leads through architecture reviews, incident exercises, practical documentation, and mentoring. Motivated by Northstar Robotics Systems' robotics mission and ready to bring calm execution, reliable automation, and thoughtful platform leadership to its engineering organization.

EXPERIENCE

Senior DevOps Developer

April 2025 - Present

VectorForge Automation

Austin, TX

Leads platform engineering for cloud and edge services supporting robotic fulfillment cells across 14 warehouse sites. Owns multi-cloud operations, Kubernetes delivery, infrastructure automation, observability, incident learning, and technical direction for distributed engineering teams.

- Led **AWS**, GCP, and **self-hosted Kubernetes** operations for robotic fulfillment cells across 14 warehouse sites, keeping platform services dependable during active warehouse shifts.
- Reworked ArgoCD GitOps promotion patterns with fleet-specific release controls, giving backend and **frontend teams** a clear path from pull request validation through warehouse deployment.
- Standardized Terraform modules and Ansible roles for networking, worker nodes, secrets integration, and **observability**, reducing configuration drift across cloud and **on-premises** environments.
- Established Prometheus, Grafana, and OpenSearch dashboards, logs, and alerts for **robotics** APIs and edge gateways, giving engineers faster signals during service degradation.
- Directed incident reviews for Linux connectivity, container scheduling, and intermittent site links, turning findings into runbooks, automated checks, and recovery exercises.
- Mentored five platform and application engineers through architecture reviews, deployment readiness checks, and troubleshooting guidance for North American and European teams.

DevOps Engineer

January 2023 - March 2025

BlueRidge Industrial Cloud

Denver, CO

Operated Kubernetes and Docker platforms for industrial control applications across managed cloud clusters and hardened warehouse edge nodes. Connected release engineering, Linux operations, infrastructure automation, observability, and risk communication for distributed product teams.

- Operated **Kubernetes** and Docker platforms across AWS, **GCP**, and hardened warehouse edge nodes, supporting industrial control services with dependable release and recovery practices.
- Built reusable **Terraform** for VPCs, load balancing, **IAM** boundaries, registries, and managed databases, preserving clear development, staging, and production separation.
- Migrated release workflows to **ArgoCD** with health checks and rollback policies, giving field technicians and operations analysts more consistent service updates.
- Automated Linux provisioning and patching with **Ansible**, documenting network dependencies, certificate rotation, and recovery steps for limited maintenance windows.
- Introduced distributed tracing, log correlation, and alert ownership for API latency and device-registration failures, shortening investigation without interrupting warehouse shifts.
- Partnered with software, QA, security, and implementation teams to explain platform constraints, assess release risk, and coordinate changes across time zones.

Cloud Automation Engineer

June 2020 - December 2022

Harborline Systems

Raleigh, NC

Delivered cloud automation for a warehouse orchestration platform spanning AWS services, Dockerized applications, Linux edge appliances, and software delivery workflows. Improved repeatability, deployment confidence, connectivity diagnosis, and communication between engineering and implementation teams.

- Delivered **AWS automation** for a warehouse orchestration platform, connecting Dockerized services with Linux edge appliances so customer sites received consistent operating environments.
- Replaced manual environment definitions with Terraform modules and peer-reviewed state practices, making repeatable test environments available for application teams.
- Designed **GitHub Actions** and **Jenkins** pipelines for container builds, security checks, integration tests, and staged Kubernetes releases, improving feedback before production changes.
- Supported Ansible configuration for Ubuntu hosts, including firewall rules, system packages, service users, and health checks that reduced setup effort for site deployments.
- Created **Go utilities** for deployment validation and edge connectivity diagnostics, giving support engineers a consistent pre-change check for site readiness.
- Resolved **DNS**, TLS, routing, and container resource issues with developers and implementation specialists through clear documentation and scheduled technical walkthroughs.

DevOps Associate

June 2018 - May 2020

Cobalt Mesa Technologies

Phoenix, AZ

Supported AWS infrastructure and Docker-based development environments for logistics software used in automated distribution operations. Built foundational Linux, networking, CI/CD, Terraform, Kubernetes troubleshooting, and stakeholder communication skills under senior engineering guidance.

- Supported AWS infrastructure and **Docker** development environments for logistics software used in automated distribution operations, keeping engineering work moving through scheduled releases.
- Maintained Linux hosts, security groups, DNS records, and network routes under senior review, building practical systems and **networking fundamentals** through live service support.
- Added Jenkins stages for unit tests, image scanning, artifact publishing, and deployment approvals, improving feedback quality for a six-person development team.
- Authored Terraform for compute, storage, and **monitoring** resources, validating changes through code review and nonproduction testing before wider adoption.
- Assisted **Kubernetes** workload troubleshooting by reviewing events, container logs, resource limits, and service discovery behavior during release windows.
- Produced deployment notes, recovery checklists, and concise incident summaries that helped non-technical stakeholders understand service impact and next steps.

PROJECTS

Robotics Edge Release Control 📅 2026

Built a fleet-aware ArgoCD GitOps model for robotics edge releases. Terraform and Ansible prepared sites, Kubernetes managed workloads, and automated checks protected warehouse operations during staged delivery.

Hybrid Observability Program 📅 2025

Unified Prometheus, Grafana, and OpenSearch signals across cloud and on-premises systems. Dashboards connected metrics, logs, and alerts so teams could trace service health from central APIs to edge gateways.

Go Edge Connectivity Toolkit 📅 2023

Created Go command-line utilities for deployment validation, DNS checks, TLS inspection, and edge connectivity diagnosis. Support teams gained a repeatable readiness check before site changes.

LEADERSHIP & AWARDS

- Graduate Research Fellowship, Arizona State University, 2017
- Outstanding Cloud Systems Project Award, Arizona State University, 2018
- Operational Excellence Recognition, Cobalt Mesa Technologies, 2019
- Technical Mentor, Platform Engineering Mentorship Circle, 2025 - Present

EDUCATION

Master of Science in Computer Science

2018

Arizona State University GPA: 3.8

Tempe, AZ

Coursework: Distributed systems, cloud computing, operating systems, computer networking

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate 📅 2024

- Certified Kubernetes Application Developer (CKAD) 📅 2023
- HashiCorp Certified: Terraform Associate 📅 2022

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, GCP, Azure
- **Container Platforms:** Kubernetes, Docker, self-hosted Kubernetes
- **Infrastructure as Code:** Terraform, Terraform modules, state management
- **Configuration Management:** Ansible, Ansible roles, Linux provisioning
- **GitOps Delivery:** ArgoCD, GitOps, deployment promotion
- **CI/CD Systems:** GitHub Actions, Jenkins, CI/CD pipelines
- **Observability Tools:** Prometheus, Grafana, OpenSearch
- **Systems Engineering:** Linux, Ubuntu, system packages
- **Networking Services:** DNS, TLS, routing
- **Cloud Security:** IAM, security groups, secrets integration
- **Edge Infrastructure:** Edge computing, IoT infrastructure, warehouse deployments
- **Programming Languages:** Go, shell scripting, YAML
- **Reliability Engineering:** Disaster recovery, rollback policies, recovery exercises

SKILLS

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|--------------|-----------------|----------|---------------------------|
| • AWS | • Docker | • Go | • Cloud networking |
| • GCP | • Terraform | • Linux | • Edge computing |
| • Azure | • ArgoCD GitOps | • CI/CD | • Technical documentation |
| • Kubernetes | • Ansible | • GitOps | |

PROFESSIONAL AFFILIATIONS

- Cloud Native Austin, Workshop Facilitator, 2024 - Present
- Platform Engineering Mentorship Circle, Technical Mentor, 2025 - Present
- Arizona State University Distributed Systems Study Group, Organizer, 2017 - 2018

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST