

Joe Martinez

Platform Engineer · Kubernetes, GitOps and observability for ML platforms

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Platform engineer who runs Kubernetes where it's hardest: customer clouds, air-gapped networks and DoD-accredited environments. At Arize AI I build the operator, Terraform and observability that ship our ML observability platform into 50+ enterprise environments. At home I run a GitOps Raspberry Pi cluster that I'm turning into a small ML platform. I'm moving toward ML infrastructure: GPU scheduling, model serving and LLM operations.

EXPERIENCE

DevOps Engineer, Arize AI

Dec 2025 – Present

- Extended the Arize AX Kubernetes operator in Go and Python with reconciliation logic and health gating, removing manual steps from upgrades and cutting deployment-related incidents by 20%.
- Authored the Terraform modules and Kustomize overlays used for every production install across AWS, Azure and GKE, including air-gapped and on-prem environments.
- Built deployment validation and health monitoring on Prometheus, Grafana and OpenTelemetry, giving 50+ customer environments one signal set for install verification and triage.
- Designed the self-service install path (golden paths, preflight checks, CI/CD guidance), raising first-attempt success and cutting repeat escalations by 30%.
- Owned Kubernetes reliability across networking, storage and ingress; turned recurring failure modes into automated readiness checks.

Customer Reliability Engineer, Replicated

Apr 2025 – Dec 2025

- Integrated LLM-backed tooling into incident response to pull context from logs and support bundles, reducing mean time to root cause by 20%.
- Built reference platform implementations covering Helm configuration, CI/CD pipeline templates and the Replicated release system.
- Debugged install and runtime failures on EKS, GKE, AKS, k3s and embedded clusters across CNI, storage class and admission-control layers.
- Wrote the documentation and onboarding path enterprise teams use to ship Replicated-packaged Kubernetes apps.

Customer Support Engineer, Second Front Systems

Aug 2024 – Apr 2025

- Provisioned AWS infrastructure with Pulumi and authored Helm charts reproducing customer environments across DoD impact levels.
- Operated GitOps delivery with Argo CD and Flux, plus GitLab CI pipelines onboarding container images into accredited environments.
- Ran Istio, Kyverno and MinIO in-cluster alongside stateful services (Kafka, RabbitMQ, PostgreSQL, OpenSearch, Prometheus, Grafana).
- Wrote Python tooling that automated client onboarding, cutting manual setup time by 25%.

DevOps Support Engineer, Ionic

Sep 2023 – May 2024

- Built and debugged mobile CI/CD pipelines on GitHub Actions, Azure DevOps and AWS S3, including iOS and Android signing.
- Ran CI/CD onboarding and pipeline reviews for enterprise Appflow customers; surfaced failure trends that shaped platform reliability work.

Intern → Technology Associate → Engineer III

- Kept secure file transfer infrastructure moving 500+ TB a day at 99.998% availability, monitored with Splunk, Prometheus and Grafana.
- Wrote Bash automation that pulls Unix health-check reports during incidents, cutting downtime by 30–40 minutes, and Python tooling that saved an hour per annual user audit.
- Led the annual certificate rotation and disaster-recovery exercises for partner file transfers.

PROJECTS

Homelab platform: Four Raspberry Pi 5s running k0s, managed entirely by Flux. Keycloak SSO, Sealed Secrets, CloudNativePG, kube-prometheus-stack, cert-manager, MetalLB and Traefik, backed by an Unraid NAS. This site is served from it.

rack-display: An animated face on the rack's 2U touchscreen whose expression follows cluster health from Prometheus and Alertmanager. Runs as a kiosk pod, ships its own exporters and an iPhone widget.

ML platform on the homelab (in progress): MLflow, Argo Workflows and object storage on the cluster, then a GPU node for vLLM serving and an LLM ops assistant traced with Arize Phoenix.

SKILLS

Kubernetes & GitOps: Kubernetes, Operators (Go), Helm, Kustomize, Flux, Argo CD, Istio, Kyverno

Cloud & IaC: AWS, Azure, GCP, Terraform, Pulumi, Air-gapped installs

Observability: Prometheus, Grafana, OpenTelemetry, Alertmanager, Splunk

CI/CD: GitHub Actions, GitLab CI, Azure DevOps

Data & messaging: PostgreSQL (CNPg), Kafka, RabbitMQ, OpenSearch, MinIO

Languages: Go, Python, Bash, JavaScript

ML platform (learning): LLM tooling, Arize Phoenix, MLflow, vLLM

CERTIFICATIONS

Certified Kubernetes Administrator (CKA) (The Linux Foundation, valid to Jan 2027) · CompTIA Security+ (CompTIA, valid to Jan 2028)

Previously earned: HashiCorp Terraform Associate (003) (2024) · Kubernetes and Cloud Native Associate (KCNA) (2024) · AWS Solutions Architect – Associate (2023) · AWS Cloud Practitioner (2023)

EDUCATION

B.S. Information Technology, Florida International University

2019–2021

A.A., Miami Dade College

2016–2019