

# Cristian Verduzco

Backend · Platform · SRE/DevOps | Go · Kubernetes · Cloud

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## Summary

Recent CS graduate (BS, CSU Fullerton) building and operating production-grade infrastructure in Go and Kubernetes — a custom operator, a GitOps drift detector with auto-remediation, and a one-command observability stack, all on a self-hosted bare-metal kubeadm cluster. Experienced across the full stack: backend APIs, CI/CD, containerization, cloud infra, and frontend. U.S. citizen — ITAR eligible, clearance eligible.

## Skills

**Languages:** Go, Python, TypeScript, Bash, SQL

**Cloud & Infra:** Kubernetes (kubeadm), AWS (EC2, IAM), Docker, Linux (Arch, Ubuntu)

**DevOps:** GitHub Actions, Helm, GitOps, distroless containers, RBAC

**Observability:** Prometheus, Grafana, Alertmanager, ServiceMonitor

**Backend & Web:** Gin, controller-runtime, client-go, Cobra, REST, PostgreSQL, Redis, React, Next.js, Tailwind

## Projects

### NanoDeploy — Kubernetes Operator & Control Plane

Jan 2025

- Go operator (controller-runtime) provisioning PostgreSQL/Redis via declarative CRDs with 30s self-healing reconciliation; exposed via Gin REST control plane and real-time React dashboard with Prometheus metrics.
- Packaged as a production Helm chart with RBAC and distroless multi-stage image; deployed on a self-hosted kubeadm cluster. [github.com/cristianverduzco/nanodeploy](https://github.com/cristianverduzco/nanodeploy)

### DriftGuard — GitOps Drift Detector & Auto-Remediator

Jan 2025

- Go service treating Git as source of truth: continuously diffs live Kubernetes cluster state against a repo, fires Slack alerts on drift, and auto-remediates via server-side apply.
- Built from scratch to understand Argo CD and Flux internals; includes real-time dashboard, Prometheus metrics, dry-run mode, and RBAC Helm chart with ServiceMonitor. [github.com/cristianverduzco/driftguard](https://github.com/cristianverduzco/driftguard)

### ObserveX — One-Command Observability Stack

Jan 2024

- Go CLI (Cobra + Helm SDK + client-go) bootstrapping Prometheus + Grafana + Alertmanager on any Kubernetes cluster in under two minutes, with Grafana pre-wired to Prometheus.
- Four subcommands — install, status, dashboard (port-forward + auto-open browser), uninstall — built on the same tooling underlying kubectl and Helm. [github.com/cristianverduzco/observex](https://github.com/cristianverduzco/observex)

## Experience

### Self-Hosted Platform Lab, Personal Infrastructure Project

Arch Linux / kubeadm

- Administer a bare-metal kubeadm Kubernetes cluster end to end — node provisioning, CNI (Flannel), storage, RBAC, upgrades, and day-2 operations on Arch Linux.
- Build and operate NanoDeploy, DriftGuard, and ObserveX on the cluster; manage all CI/CD via GitHub Actions with distroless images and least-privilege RBAC enforced throughout.

Jan 2024 – present  
2 years 5 months

## Education

### BS California State University, Fullerton, Computer Science

Jan 2026

- GPA: 3.30