José Daniel Lorenzana Medina

Support & Implementation Engineer · DevSecOps & Cloud Security

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Summary

Support and implementation engineer working with Kubernetes, OpenShift and cloud-native platforms, focused on DevSecOps. Creator of Fortress in a Box, an open-source Kubernetes security stack for NGOs, journalists and human rights organizations, presented at Blue Team Con (Chicago) and Black Hat SecTor (Toronto) in 2026. Hands-on with GKE, CI/CD, GitOps, observability and real-time threat detection. Systems Engineering at Universidad de San Carlos de Guatemala, coursework completed.

Experience

Support & Implementation Engineer — ITM May 2026 – Present

- Implement and support enterprise Kubernetes and Red Hat OpenShift platforms for clients.
- Install, upgrade, migrate and troubleshoot Red Hat Satellite and Capsule.
- Implement GitOps workflows and container platform solutions with cloud-native tools.
- Diagnose and resolve infrastructure, networking and platform issues on Linux.
- Work with clients and internal teams to deliver reliable, secure and automated infrastructure.

Teaching Assistant, Operating Systems I — USAC Jan 2026 – Nov 2026

- Guided students through labs on Linux, containers (Docker) and Kubernetes.
- Helped troubleshoot real system, deployment and environment issues in lab settings.
- Reinforced operating systems and DevOps concepts through scenario-based practice.

Customer Service Representative (Walmart US) — Alorica Oct 2021 – Dec 2021

- Maintained service quality with the team in a high-volume English-language environment.

Speaking

Blue Team Con 2026 — Chicago, USA 2026

“Fortress in a Box: Enterprise-Grade Kubernetes Security for the Organizations That Can’t Afford It.”

Black Hat SecTor 2026 — Toronto, Canada 2026

“Fortress in a Box: Building Enterprise Kubernetes Security for Organizations That Can’t Afford It.”

Projects

Fortress in a Box — open-source DevSecOps stack fortressinabox.dev

Kubernetes, Trivy, Kyverno, Falco, ArgoCD, Grafana, GitHub Actions

- Built a one-command, enterprise-grade Kubernetes security stack for NGOs, investigative journalists and human rights activists facing state-sponsored attacks.
- Four layers of defence: CI/CD image scanning (Trivy), admission control that blocks insecure deployments (Kyverno), runtime threat detection (Falco) and GitOps drift recovery (ArgoCD).
- Real-time alerts through Discord webhooks and Grafana dashboards usable by non-technical staff.

Microservices on Kubernetes (GKE) — team project

Kubernetes, Docker, ConfigMaps/Secrets, Services/Gateway

- Deployed containerized microservices on GKE with Deployments, Services, ConfigMaps and Secrets in production-like environments.
- Configured readiness and liveness probes; ran rolling updates and rollbacks with kubectl.
- Troubleshot application and network issues using logs, events and resource inspection.

InfoHub — CI/CD pipeline (team project)

GitHub Actions, Docker, Docker Compose

- Designed a GitHub Actions pipeline automating testing, containerization and deployment, with versioned Docker images for repeatable releases.

Weather Tweets — observability and load testing

Kubernetes, Grafana, Valkey (Redis-compatible), RabbitMQ, Locust

- Monitored application and infrastructure metrics in Grafana and simulated traffic with Locust to analyse performance under load.

Skills

DevOps / Cloud: Kubernetes (GKE), Red Hat OpenShift, Docker, CI/CD (GitHub Actions), Linux, Grafana, Prometheus

Security / DevSecOps: Falco, Kyverno, Trivy, ArgoCD (GitOps), Red Hat Satellite

Backend: Go, Python, Node.js, Flask, REST APIs · **Frontend:** React, Angular, HTML/CSS

Data: MySQL, Redis (Valkey) · **Tools:** Git, GitHub, VS Code, Agile/Scrum

Education

Systems Engineering — Universidad de San Carlos de Guatemala (USAC) 2022 – 2026

Coursework completed.

High School Diploma, Computer Science — Colegio Bilingüe El Prado 2020 – 2021

Certifications

- Managing Kubernetes in Google Cloud (Skill Badge) — Google Cloud
- Kubernetes Crash Course — KodeKloud
- Professional Docker Course — CódigoFacilito
- GitHub Actions — GitHub
- Complete Python Course

Writing

“Kubernetes Explained Through Theatre” — Medium, July 2025. An introduction to Kubernetes concepts for beginners.

Languages

Spanish: native · English: upper-intermediate to advanced (B2–C1)