

MICHAEL L. LOPEZ

Senior Platform Engineer | DevOps & Cloud Infrastructure

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PROFESSIONAL SUMMARY

Senior Platform Engineer with 14 years of experience spanning DevOps, cloud infrastructure, and application operations. Specializes in building internal developer platforms (IDP) — architecting reusable Terraform modules, GitOps workflows via ArgoCD, and Kubernetes-native tooling that development teams adopt at scale. Deep operational background (8 years in app support and systems administration) provides a rare ability to design infrastructure that is both developer-friendly and production-grade. Currently expanding into AI-augmented platform tooling. AWS practitioner with hands-on expertise across EKS, Confluent, CI/CD automation, and event-streaming platforms.

CORE COMPETENCIES

Cloud & Infrastructure: AWS, Terraform, Docker, Kubernetes

CI/CD & GitOps: ArgoCD, Concourse CI, Jenkins, Helm

Event Streaming & Data: Confluent for Kubernetes, Confluent Cloud, Apache Kafka

Observability & SRE: Sumo Logic, New Relic, Grafana, PagerDuty, AWS CloudWatch

Languages & Scripting: Python, Shell/Bash, SQL, YAML, Java

PROFESSIONAL EXPERIENCE

Senior Platform Engineer | Trimble | Remote

Sep 2024 – Present

Lead platform engineering for a multi-team cloud-native environment, owning the full lifecycle of internal developer tooling and infrastructure services.

- ▶ Own and operate the full platform stack across multiple AWS accounts and environments: EKS cluster lifecycle (including version upgrades to v1.33), ArgoCD-driven GitOps deployments, Concourse CI pipelines, Confluent for Kubernetes, and Confluent Cloud — reducing deployment time from 1 day to 10 minutes and MTTR from 6 hours to 5 minutes.
- ▶ Manage secrets infrastructure at scale across all environments using AWS Secrets Manager and External Secrets Operator (ESO), consolidating IAM policies via Terraform and maintaining secrets hygiene across 20+ services spanning dev, staging, and production accounts.
- ▶ Led full dual-certificate migration for all Kubernetes ELBs across multiple AWS accounts (EA, BIM, GC1, Prod), coordinating validation and cutover with zero service disruption.
- ▶ Deployed and operate security tooling org-wide: CrowdStrike agent rollout via ArgoCD daemonsets, FIPS enablement on Confluent for Kubernetes (GC1), CVE remediation, and Cybersecurity TSDLC compliance validation.
- ▶ Implemented KEDA (Kubernetes Event-Driven Autoscaling) across all production and lower-environment clusters via ArgoCD, enabling event-driven scaling for workloads without manual HPA configuration.
- ▶ Built full observability stack for Concourse CI: Prometheus metrics endpoint, RDS Enhanced Monitoring, New Relic EKS integration, and custom pipeline performance dashboards — reducing mean time to recovery from 6 hours to 5 minutes.

DevOps Engineer | Trimble | Remote

Jul 2019 – Sep 2024

Grew from individual contributor to platform owner over 5 years, driving the team's shift from manual deployments to fully automated, GitOps-driven infrastructure.

- ▶ Provisioned and administered Concourse CI and Jenkins infrastructure, establishing reusable pipeline templates (build, test, multi-environment promotion) that development teams adopted as the standard for Kubernetes-based deployments across the organization.
- ▶ Drove Kubernetes adoption across engineering, provisioning cluster infrastructure and deploying third-party Helm charts for platform services including Kong, Confluent, ingress controllers, and monitoring tooling — enabling 15–20 teams to migrate workloads from VMs to EKS.

- ▶ Pioneered Terraform IaC adoption, authoring AWS provisioning modules for EKS node groups, RDS instances, IAM roles, and S3 — replacing manual console-driven changes and eliminating configuration drift across dev, staging, and production.
- ▶ Implemented Okta SSO authentication for Jenkins and ArgoCD, centralizing identity management and eliminating per-service credential management across the platform.
- ▶ Established AWS Secrets Manager as the org-wide secrets standard, building the initial secrets structure and access patterns that scaled into the current ESO-based secrets infrastructure.

Senior Application Support Engineer | Sigma Systems | Toronto, CA (Remote) Apr 2018 – Apr 2019

- ▶ Served as primary technical escalation point for enterprise clients, owning end-to-end troubleshooting and deployment execution.
- ▶ Automated deployment workflows with Shell scripting, reducing manual deployment effort by 30% and eliminating a class of human errors.
- ▶ Optimized complex SQL queries for production data diagnostics, improving incident resolution speed and data integrity validation.

DevOps / Automation Engineer | TracFone Wireless | Medley, FL Feb 2013 – Apr 2018

- ▶ Designed and maintained CI/CD pipelines using Jenkins and UrbanCode AnthillPro for a high-volume consumer wireless platform.
- ▶ Developed Python and Shell automation scripts, reducing deployment error rate by 40% and standardizing release processes across 10+ application teams.
- ▶ Managed IBM WebSphere Application Server environments, improving stability and uptime for production consumer-facing services.
- ▶ Mentored junior engineers on DevOps best practices, automation patterns, and release management — growing team capability and reducing dependency on senior staff.

Network & Systems Administrator | Trax USA Corporation | Coconut Grove, FL Jul 2011 – Jan 2013

- ▶ Managed IT infrastructure including WebLogic application servers, VoIP systems, and network operations. Maintained backup and disaster recovery processes for business continuity.

EDUCATION

Bachelor of Science, Computer Engineering

University of Miami — Coral Gables, FL | December 2010

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (*In Progress*)

Certified Kubernetes Administrator (CKA) (*In Progress*)