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 (development, staging, and production): EKS cluster lifecycle and version upgrades (v1.24 through v1.33), ArgoCD-driven GitOps deployments, Concourse CI, Confluent for Kubernetes upgrades, 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 using AWS Secrets Manager and External Secrets Operator (ESO), consolidating IAM policies via Terraform and maintaining secrets hygiene across 20+ services spanning development, staging, and production accounts.

► Led full TLS/SSL certificate migration for all Kubernetes load balancers across four separate AWS accounts, coordinating phased validation and cutover with zero service disruption.

► Own platform security posture: CrowdStrike endpoint agent rollout via ArgoCD daemonsets, FIPS 140-2 enablement on Confluent for Kubernetes in the GovCloud environment, Log4j CVE remediation across all compute instances, Snyk vulnerability remediation, and internal cybersecurity compliance validation.

► Deployed KEDA (Kubernetes Event-Driven Autoscaling) across all clusters via ArgoCD, enabling workloads to scale automatically based on event queue depth; built full Concourse CI observability stack including Prometheus metrics, RDS Enhanced Monitoring, and New Relic dashboards.

► Engineered reusable Terraform modules for AWS infrastructure provisioning, cutting infrastructure provisioning time from 1 day to 30 minutes and eliminating configuration drift across environments.

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 Helm charts for platform services including Kong API gateway, Confluent, ingress controllers, and monitoring tooling — supporting the migration of 15–20 services from virtual machines 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)*