

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.

- ▶ Architected ArgoCD from the ground up using an app-of-apps pattern, establishing GitOps as the sole deployment mechanism across all teams — reducing deployment time from 1 day to 10 minutes and MTTR from 6 hours to 5 minutes.
- ▶ Engineered reusable Terraform modules for AWS infrastructure provisioning (VPC, EKS, IAM, S3), cutting provisioning time from 1 day to 30 minutes and eliminating environment drift across dev, staging, and production.
- ▶ Own end-to-end platform architecture: EKS cluster lifecycle, ArgoCD multi-app orchestration, Concourse CI pipelines, Confluent for Kubernetes, and Confluent Cloud — maintaining availability and reliability SLAs across all services.
- ▶ Defined and drove platform adoption strategy across engineering and operations, standardizing tooling, GitOps workflows, and deployment runbooks — eliminating tribal knowledge and cutting onboarding time for new teams.
- ▶ Established progressive delivery patterns using ArgoCD sync waves and health checks, enabling zero-downtime deployments and automated rollback on failure.

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.

- ▶ Designed and maintained multi-stage Jenkins and Concourse CI pipelines covering build, automated test, and environment promotion (dev → staging → prod) for 15–20 services — standardizing release management and eliminating manual hand-offs between teams.
- ▶ Led Kubernetes migration for 15–30 services, authoring reusable Helm chart templates and deployment standards that became the org-wide baseline — reducing per-service onboarding from days to hours.
- ▶ Pioneered Terraform IaC adoption, authoring foundational AWS modules (VPC, IAM, EKS, S3) that became the provisioning standard across all new infrastructure — replacing ad-hoc console changes and eliminating configuration drift.
- ▶ Partnered with security and networking teams to implement secrets management (Vault/K8s Secrets), least-privilege IAM policies, and network policy guardrails across all pipeline and cluster workloads.

- ▶ Built incident runbooks and post-mortem processes for infrastructure failures, reducing repeat incidents and on-call escalation burden across engineering teams.

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*)