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 and implemented ArgoCD-based GitOps workflows, slashing deployment time from 1 day to 10 minutes and reducing mean time to recovery (MTTR) from 6 hours to 5 minutes.
- ► Engineered reusable Terraform automation for AWS infrastructure provisioning, cutting provisioning time from 1 day to 30 minutes and eliminating manual configuration errors across teams.
- ► Own and operate the full platform stack: Kubernetes (EKS), ArgoCD, Concourse CI, Confluent for Kubernetes, and Confluent Cloud — maintaining high availability and reliability SLAs.
- ► Defined and led the platform services adoption strategy, aligning engineering and operations teams on shared tooling standards to eliminate tribal knowledge and improve operational handoffs.
- ► Designed disaster recovery runbooks and maintenance automation, measurably improving system fault tolerance and reducing unplanned downtime.
- ► Drive Kubernetes adoption org-wide, mentoring development teams on container orchestration best practices and GitOps workflows.

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 scaled CI/CD pipeline architecture using Jenkins and Concourse CI, enabling consistent, automated release management across multiple development teams.
- ► Spearheaded application migration to Kubernetes, establishing deployment patterns and Helm chart standards adopted across engineering.
- ► Pioneered Terraform adoption for infrastructure-as-code, authoring foundational modules that became the standard for all new AWS resource provisioning.
- ► Led troubleshooting and incident response for critical infrastructure failures, developing runbooks that reduced repeat incidents and on-call burden.
- ► Collaborated cross-functionally with security and networking teams to establish deployment guardrails, secrets management standards, and least-privilege IAM policies.

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)*