Michael Singh

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PROFESSIONAL SUMMARY

Senior DevOps Architect and **Founder** with over 10 years of experience designing secure, compliant infrastructure for high-growth US startups and FinTech unicorns. Specialist in **Infrastructure-as-Code (IaC)**, **FinOps (Cloud Cost Reduction)**. I bridge the gap between complex engineering problems and business goals, delivering "Golden Path" architectures that allow teams to ship faster with zero downtime.

PROFESSIONAL EXPERIENCE

SYSTEMS ORIENTED BUSINESS ENGINEERING & RESEARCH (SOBER) | Founder & Principal DevOps Architect | *May 2023 – Present*

Founded a boutique consultancy delivering production-grade, security-hardened Reference Architectures to enable deterministic, reproducible cloud infrastructure.

- **Key Engagement: suena.energy (Hamburg) | Staff DevOps Engineer**
  - **Strategic Tooling:** Roadmaped the transition from manual ops to enterprise-grade automation, selecting tools that matched the organization's scale.
  - **FinOps Leadership:** Executed a comprehensive cost-reduction strategy for AWS resources using open-source analysis tools, optimizing instance sizing and retention policies to drive immediate budget efficiency.
  - **Observability:** Architected telemetry pipelines to ship logs and metrics from ECS to **Datadog**, ensuring deep system visibility for operations.
- **Key Engagement: Levee (Chicago) | Senior Infrastructure Architect**
  - **Greenfield Architecture:** Partnered with Founders to translate pre-seed vision into a secure, **cloud-agnostic** infrastructure identity from Day 0.
  - **Modern Automation:** Implemented **Terraform Cloud** and **GitHub Actions** to drive all infrastructure changes, ensuring a "commit-to-deploy" workflow with zero manual interference.
  - **Compliance-Ready:** Built infrastructure with security best practices baked in, ensuring readiness for investor due diligence.

GEM | *Dove, DE (Remote)* **Senior DevOps Engineer** | *2021 – 2023*

- Orchestrated the architectural design and management of a multi-cloud footprint, focusing on high availability.
- Spearheaded a major infrastructure refactor that resulted in a **20% reduction in monthly cloud costs** (Estimate) while improving system performance.
- Modernized development pipelines, reducing deployment times by implementing cutting-edge CI/CD methodologies.

AQUILINE DRONES | *Hartford, CT (Remote)* **Senior DevOps Engineer** | *2021 – 2022*

- Led the DevOps strategy for a custom-built cloud platform, designing the CI/CD ecosystem from the ground up for drone fleet management software.
- Collaborated with cross-functional teams to integrate proprietary hardware requirements into the cloud lifecycle.

CHAINALYSIS | *New York, NY* **DevOps Engineer** | *2019 – 2021*

- *Designed and maintained critical infrastructure supporting AML/KYC software used by global governments and financial institutions.*
- **Zero-Downtime Migration:** Executed a high-stakes migration of compliance software from Hetzner to **AWS** with zero unexpected downtime.
- **Reduced TTM:** Accelerated Time-To-Market by architecting serverless workflows using **AWS Step Functions, Fargate, Lambda, and Aurora**.
- **Security & Compliance:** Operated as the sole Embedded DevOps engineer within the Security/Compliance teams; led secrets management initiatives using **Vault Enterprise**.
- **Infrastructure as Code:** Implemented modular Terraform architectures integrated directly into the developer workflow.

COTA HEALTHCARE | *New York, NY* **Infrastructure Engineer** | *2018 – 2019*

- Served as the Subject Matter Expert (SME) on **GCP**, cloud-native architecture, and release engineering.
- Planned and executed a complex migration of legacy healthcare applications from AWS to **Google Cloud Platform (GCP)**.
- Drove the adoption of **Site Reliability Engineering (SRE)** principles, significantly enhancing system observability.

TECH CAFE | *St. John's, Antigua* **Systems Administrator** | *2016 – 2018*

- Sole Administrator responsible for all production infrastructure.
- **Cost Reduction:** Cut IT operational costs by **90%** through virtualization (KVM) and strategic resource management.
- Migrated on-premise infrastructure to AWS using Terraform and Docker.

SKILLS & COMPETENCIES

- **Cloud Platforms:** AWS (Expert), GCP, Multi-Cloud Architectures.
- **Infrastructure as Code:** Terraform (Expert), CloudFormation, Modular Architecture.
- **Containerization & Orchestration:** Kubernetes (K8s), Docker, ECS, Fargate.
- **CI/CD & Automation:** GitHub Actions, Terraform Cloud, GitOps, CircleCI.
- **Observability & Security:** Datadog, Prometheus, Vault Enterprise, SOC2 Compliance, SRE.
- **Core Concepts:** Serverless Computing, Microservices, DevSecOps.

VOLUNTEER & COMMUNITY

- **Kubernetes Release Team:** Contributor to versions 1.12 and 1.13.
- **Fedora Project Contributor:** Focused on QA and user support deliverables.

EDUCATION

- **New York City College of Technology** | *Coursework in Computer Science*
- **Antigua and Barbuda Institute of Technology |** *Coursework in Computer Science*