

Christian Camilo Gaviria Castro

Senior Site Reliability Engineer | Cloud, Telco & Security | AI-Augmented Infrastructure

Medellín, Colombia | GMT-5
me@cgaviria.com | +57 300 343 7758
linkedin.com/in/cgaviria44 | cgaviria.com



SUMMARY

Telecommunications Engineer with nearly a decade architecting and operating production-grade cloud, baremetal and telco infrastructure for ISPs, MSPs and SaaS companies. Senior Site Reliability Engineer at US-based **Cuemby** — multi-cloud (AWS, GCP, Azure, CIVO) and on-premise environments, advanced Kubernetes (Cilium, Rook Ceph, Velero, KubeVirt), DevSecOps, observability and AI-augmented engineering. Strong advocate of open-source technologies to reduce operational costs without sacrificing reliability or scale.

KEY ACHIEVEMENTS

- Architect and operate production hybrid cloud at US-based Cuemby — public (AWS, GCP, Azure, CIVO), private cloud and on-premise baremetal; 24/7 incident response with bilingual EN/ES client liaison.
- Production Kubernetes at telco scale — Cilium (eBPF networking), Rook Ceph (distributed storage), Velero (backup and DR), KubeVirt; cluster lifecycle and security hardening.
- 5G and edge cloud-native — deployed 5G and cellular core functions on Kubernetes and Unikraft unikernels for high-performance edge workloads.
- A decade architecting ISP and MSP telecom networks — BGP, IPv6 (LACNIC), full OSI stack, GPON deployments across Huawei, ZTE, TP-Link and CData, plus IPTV and VoIP for end users.
- Led cloud migrations across multiple US-based clients (Droptek, Evendi, Cuemby) — monolithic to elastic AWS using Terraform and Ansible IaC, with blue/green deployments for zero-downtime cutovers.
- Champion of open-source technologies to cut operational costs — Kubernetes plus Cilium, Ceph and Velero stacks replacing proprietary alternatives; KVM, Proxmox and Apache CloudStack as cost-effective virtualization across hybrid environments.

EXPERIENCE

Senior Site Reliability Engineer — Cloud & Security *Cuemby*

April 2023 - Present
Remote · US-based company

- Architect and operate hybrid cloud platforms — public (AWS, GCP, Azure, CIVO), private cloud and on-premise baremetal — covering provisioning, network design, observability, security and 24/7 incident response.
- Run advanced Kubernetes workloads in production: Cilium-based networking (eBPF), Rook Ceph distributed storage, Velero backups and disaster recovery, ingress and service mesh, cluster lifecycle, etcd backups and security hardening.
- Deploy and operate emerging stacks including 5G / cellular network functions on Kubernetes and unikernel-based workloads with Unikraft for high-performance edge use cases.
- Manage virtualization across modern (KubeVirt on Kubernetes) and traditional stacks (KVM, Proxmox, VMware, Apache CloudStack); designed and automated end-to-end installation pipelines for baremetal servers across data centers.
- Built reusable Infrastructure-as-Code modules with Terraform, CloudFormation and Ansible, and own CI/CD pipelines (Jenkins, GitHub Actions, AWS CodePipeline/CodeBuild) — including rollback, progressive delivery and blue/green deployments for zero-downtime version migrations.
- Design data resilience strategy — distributed storage (Ceph), clustering, RAID, scheduled backups and disaster-recovery plans across multi-region setups.
- Lead observability strategy across distributed workloads — metrics (Prometheus, Grafana), logs (Loki), traces (OpenTelemetry, Jaeger, Tempo) — and drive root-cause analysis for production incidents.
- Drive DevSecOps practices: security audits, SSL/TLS, IAM hardening, and secrets scanning with GitGuardian across Git repositories.
- Integrate AI tooling (Claude Code, ChatGPT) with structured prompt engineering into runbooks, IaC reviews and post-mortems; lead architecture negotiations, cloud migrations and live incident response with US-based clients as bilingual (EN/ES) technical liaison.

Cloud Engineer

October 2019 - Present

- Designed and implemented cloud network architectures on AWS for digital products.
- Led migration and optimization of legacy infrastructure to AWS, focusing on cost, resilience and security.
- Database administration across PostgreSQL, MySQL and SQL Server.

Infrastructure Engineer

March 2021 – December 2023

TikAcademy

Remote · project-based

- Consulted for ISPs and enterprises on modernization of their network stack using MikroTik RouterOS.
- Translated business requirements into technical roadmaps for non-technical stakeholders.

Cloud Engineer

January 2022 – July 2023

Droptek

Colombia

- Planned and executed the migration of monolithic systems to elastic, autoscaling AWS architectures.
- Authored Terraform and CloudFormation templates to make environments reproducible and reduce drift.
- Designed and implemented production-grade elastic deployments in AWS for customer workloads.

Sysadmin · Network · Wireless · Cloud Engineer

September 2019 – December 2021

EJ Soluciones

Medellín, Colombia

- Designed wired networks, enterprise Wi-Fi and CCTV / IP-surveillance systems for hotels and corporate customers.
- Deployed and operated MSP-scale environments with MikroTik, UniFi, Cisco and Elastix / Issabel PBX (VoIP / IP telephony).
- Trained internal technicians on network device configuration and best practices.

Support Coordinator & Engineer

August 2016 – December 2021

PEG Soluciones – Teltic

Antioquia, Colombia

- Owned physical and logical design of telecommunications networks for ISP clients, including GPON deployments with Huawei, ZTE, TP-Link and CData OLTs / ONTs.
- Configured and operated core network devices (BGP routers, switches, OLTs) plus IP telephony (VoIP) and IPTV services for end users.
- Produced technical documentation and process runbooks, and trained support technicians on MikroTik, Ubiquiti and major-vendor GPON equipment.

Network Administrator & Researcher — Information Security Group (SISSI)

August 2016 – October 2021

ITM — Instituto Tecnológico Metropolitano

Antioquia, Colombia

- Led the Network Security and IoT Security research track (based on the OSI model); assistant on security incident management and digital forensic analysis (Feb 2018 – Oct 2021).
- Network administration for the Information Security research group, supporting research activities on network and IoT security (Aug 2016 – Oct 2021).

EDUCATION

Engineer's degree, Telecommunications

2016 – 2019

Instituto Tecnológico Metropolitano (ITM) — Medellín, Colombia

Technologist's degree, Telecommunications

2013 – 2016

Instituto Tecnológico Metropolitano (ITM) — Medellín, Colombia

TECHNICAL SKILLS

Cloud platforms: AWS (Solutions Architect Associate, Cloud Practitioner), GCP, Azure, CIVO, DigitalOcean; hybrid, private and public cloud architectures.

Kubernetes and Cloud Native: KCNA certification (CNCF), Cilium (eBPF CNI), Rook Ceph, Velero, KubeVirt, Helm, ingress controllers, service mesh, cluster lifecycle, etcd backups.

Containers: Docker, Docker Compose, containerd, multi-stage builds.

Virtualization: KVM, Proxmox, VMware, KubeVirt, Apache CloudStack.

Infrastructure as Code: Terraform, Ansible, CloudFormation, cloud-init, PXE provisioning.

CI/CD and Deployment: Jenkins, GitHub Actions, GitLab CI, AWS CodePipeline / CodeBuild / CodeDeploy, blue/green deployments, canary releases, zero-downtime version migrations.

Source control: GitHub, GitLab, Bitbucket, Git workflows.

Atlassian: Jira, Confluence, ticket hygiene, technical documentation.

Observability: Prometheus, Grafana, Loki, Jaeger, Tempo, OpenTelemetry.

Security / DevSecOps: Firewalls, UTM, WAF, GitGuardian (secrets scanning), SSL/TLS, IAM hardening, security audits, Cisco Cybersecurity Essentials.

Storage and Resilience: Rook Ceph, RAID, clustering, scheduled backups, Velero, disaster recovery, multi-region.

Networking: BGP, OSPF, IPv4/IPv6, full OSI stack, packet analysis (Wireshark, tcpdump), MikroTik (MTCNA, MTCTCE, MTCSE, MTCIPv6E), Cisco CCNA, Ubiquiti UniFi.

Wireless and Surveillance: Enterprise Wi-Fi, MikroTik Hotspot, CCTV / IP surveillance.

Telco: 5G core functions on Kubernetes, Unikraft unikernels, GPON (Huawei, ZTE, TP-Link, CData), IPTV, IP telephony (Asterisk, Elastix, Issabel).

Databases: PostgreSQL, MySQL, SQL Server (administration, backups, performance).

Operating Systems: Linux server administration, Windows server.

AI Engineering: Claude Code, ChatGPT, GitHub Copilot, structured prompt engineering, AI-assisted runbooks, IaC review, postmortems and documentation.

CERTIFICATIONS

- **Cloud:** AWS Certified Solutions Architect — Associate (SAA-C03), AWS Certified Cloud Practitioner (CLF), Open-Source Technologies on Microsoft Azure.
- **Kubernetes & Cloud Native:** Kubernetes and Cloud Native Associate (KCNA, CNCF).
- **Observability:** LFS148 — Getting Started with OpenTelemetry.
- **Networking:** MikroTik MTCNA, MTCTCE, MTCSE, MTCIPv6E; LACNIC IPv6 Advanced; Cisco CCNA Industrial.
- **Security:** Cisco Cybersecurity Essentials.
- **DevOps / IaC:** Infrastructure as Code with Terraform, Docker, AWS Storage (Platzi).
- **Methodology:** Scrum Foundation Professional (SFPC).

LANGUAGES

Spanish: Native. **English:** Advanced conversational — CEFR A1 and A2 certified, B1 in progress at Smart Academy Medellín; 3+ years working in English at Cuemby (US-based company).

SOFT SKILLS

Critical thinking and process optimization; leadership, decision-making and influence; business perspective and client-facing communication; stakeholder negotiation across technical and non-technical audiences; product thinking and continuous improvement mindset; bilingual EN/ES collaboration across distributed teams.

HONORS AND AWARDS

- **2020** — ITM Engineering Week, Graduate recognition footprint (Egresado Huella).
- **2022** — Speaker at FLISOL Medellín.
- **LACNIC 37** — Participation.