

Esteban Gaviria Zambrano

DevOps Engineer | Kubernetes, AWS, Terraform & GitOps

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LinkedIn • GitHub • Portfolio

Summary

DevOps Engineer with one year of professional experience automating the delivery and operation of a production AI SaaS platform, and infrastructure lead of MicroTodoSuite, a five-service platform migrated to Amazon EKS with Terraform, ArgoCD and an Azure recovery domain. Builds AI agents and MCP tooling that author and review infrastructure as code. On the CNCF Kubestronaut path (CKA in January 2027). Final-semester engineering student.

Experience

Brain AIX (Remote)

AI Software Developer

September 2025 – Present

Multimodal conversational AI SaaS platform: real-time agents with cloned voices and avatars (brainaix.online).

- Containerized 9+ FastAPI and NestJS microservices and built GitHub Actions CI/CD from scratch, replacing manual deployments with automated, zero-downtime releases to AWS EC2 (Docker Compose).
- Operate the AWS production infrastructure for real-time voice and LLM workloads (10+ languages, <3s latency).
- Co-designed the microservices architecture and built the AI services it hosts (LLM orchestration, RAG, voice pipeline); introduced agent-assisted development with custom *skills* and MCP servers.

Universidad Icesi — Teaching Assistant, Mathematics & Computational Thinking

2023 – 2026

Projects

MicroTodoSuite — Infrastructure Lead, team of 3 (case study • GitHub)

April 2025 – Present

Five-service platform migrated from Azure Container Apps (2025) to Amazon EKS with an Azure recovery domain (2026).

- Led the migration to AWS: wrote the Terraform for VPCs, EKS, IAM/IRSA, ECR, Secrets Manager, Route 53 and a Transit Gateway egress hub, plus versioned AWS and Azure module libraries with Terraform tests.
- Designed two profiles: *economical* (one EKS cluster, dev/staging/prod as isolated namespaces) and *full* (three EKS clusters with Istio mTLS, USD 617/month per Infracost), plus an AKS warm-standby recovery domain on Azure with tested failover.
- Built a saved-plan-only lifecycle that shuts idle environments down to cut cloud spend and rebuilds them without losing state, images or secrets.
- Authored the org's reusable GitHub Actions workflows: build once, Trivy scan, Syft SBOM, Cosign keyless signing, promotion by immutable digest via GitOps PRs, OIDC-only cloud access and IaC gates (tflint, Trivy).
- Co-built the GitOps repository (ArgoCD, Kustomize; 34 healthy applications): every deploy is a commit and every rollback a `git revert`, with Kyverno signature checks and Argo Rollouts canaries.
- Built the AI agent layer for IaC: Claude Code and Codex skills that author, review and audit Terraform, pinned documentation MCP servers, and spec-driven development with Spec Kit.

EcommerceCoZam — multi-cloud e-commerce on AKS and GKE (Terraform, GitHub Actions), built in 3 weeks 2025

Technical Skills

- **Cloud:** AWS (EKS, EC2, VPC, IAM/IRSA, ECR, Route 53, Transit Gateway), Azure (AKS, ACA), GCP (GKE)
- **Containers & Kubernetes:** Docker, Docker Compose, Kubernetes, Kustomize, Istio, Argo Rollouts
- **IaC, GitOps & CI/CD:** Terraform (modules, tests, tflint), ArgoCD, GitHub Actions (OIDC), Jenkins
- **Security & Observability:** Trivy, Syft, Cosign, Kyverno, External Secrets Operator; Prometheus, Grafana, Loki, Jaeger, ELK Stack; FinOps with Infracost
- **Programming & AI tooling:** Python, Bash, TypeScript/Node.js, Java; Claude Code, Codex, MCP servers

Education

Universidad Icesi — B.Sc. Telematics & Systems Engineering (double degree)

Expected: August 2027

Certifications & Additional

- **CNCF Kubestronaut path:** CKA scheduled for January 2027; KCNA, KCSA, CKAD and CKS for March 2027
- **Community:** CNCF Colombia member (2025 – present); Kubernetes Community Days Bogotá 2025 attendee
- **Languages:** Spanish (native), English (C1 Advanced — EF SET certificate, 2025)
- **Athletics:** Bronze medal (3rd place), Judo –90 kg — ASCUN 2026 National University Games