

PATRICIO LUMBENLENGO

Cloud / DevOps Engineer

Toulouse, France | +33 6 13 39 23 04 | contact@patriciolumbe.com

linkedin.com/in/patricio-lumbenlengo | github.com/Lumbenlengo

Live projects, diagrams and case studies: patriciolumbe.com

PROFESSIONAL SUMMARY

AWS certified Cloud and DevOps Engineer specialised in Infrastructure as Code, GitOps and platform automation. Built four complete platforms from scratch across AWS and Google Cloud with Terraform, Kubernetes, ArgoCD and serverless services: multi environment IaC, zero static credentials, human in the loop automation, CI/CD and observability. Trilingual in Portuguese, French and English.

TECHNICAL SKILLS

Cloud (AWS): EC2, EKS, ECS Fargate, Lambda, Step Functions, EventBridge, API Gateway, VPC, IAM/IRSA, KMS, SQS, DynamoDB, S3, Secrets Manager, WAF, GuardDuty, Security Hub, CloudWatch, Bedrock

Cloud (Google Cloud): Firebase Hosting, Cloud Storage, Secret Manager, Cloud Monitoring, Workload Identity Federation

Infrastructure as Code: Terraform (modular, layered, multi environment), remote state with S3 and DynamoDB locking

Containers & Orchestration: Kubernetes, Docker, Helm, KEDA, HPA, network policies

CI/CD & GitOps: ArgoCD, GitHub Actions (OIDC), AWS CodePipeline/CodeBuild/CodeDeploy (Blue/Green), tfint, checkov, trivy

Observability & SRE: Prometheus, Grafana, CloudWatch, SLOs and error budgets, X-Ray

Programming & OS: Python (FastAPI, boto3, pytest), Bash, Linux

TECHNICAL PROJECTS

AI Ops Serverless Platform *Personal project · github.com/Lumbenlengo · 2026*

- Built an event driven incident response platform on AWS (CloudWatch, EventBridge, Step Functions, Lambda) that detects anomalies, explains them in plain language via Amazon Bedrock, and applies fixes only after human approval in Slack.
- Designed a deterministic remediation model: the AI can only recommend actions from an allow list defined in Terraform, with IAM tag conditions as the final boundary against hallucinations and prompt injection.
- Delivered 5 Lambda functions and 8 Terraform modules with unit tests and a full CI pipeline: lint, tests, security scans, a plan on every pull request, manual approval before apply.
- Debugged real operational issues: an infinite alarm loop in self monitoring, a circular Terraform dependency, over shared IAM roles split into per function roles, and PII redaction before AI prompts.

EKS GitOps Platform *Personal project · github.com/Lumbenlengo · 2025 – 2026*

- Designed and deployed a production grade EKS platform with Terraform organised in layers (bootstrap, foundation, platform, add-ons) across dev and prod.
- Implemented GitOps delivery with ArgoCD: CI builds images and updates Helm values, ArgoCD reconciles the cluster with auto sync and self healing, no manual kubectl in production.
- Configured autoscaling at every level: KEDA scales the worker to zero on an empty queue, HPA handles the API, cluster autoscaler manages nodes. Removed static credentials with IRSA and OIDC.
- Deployed platform add-ons through Helm: Load Balancer Controller, External Secrets Operator, network policies, Prometheus and Grafana.

Production-Ready AWS Infrastructure *Personal project · github.com/Lumbenlengo · 2025*

- Built a highly available multi-AZ architecture (VPC, public/private subnets, ALB with HTTPS, EC2 Auto Scaling) with modular Terraform across dev, staging and prod.
- Implemented Blue/Green deployments with CodePipeline, CodeBuild and CodeDeploy, with automatic rollback on alarm.
- Applied defense in depth: WAF, GuardDuty, Security Hub, IAM Access Analyzer, AWS Config, CloudTrail, KMS and Secrets Manager.
- Defined SLOs for availability, latency and error rate, enforced by an error budget Lambda that blocks deployments once exhausted.

Cloud Portfolio Platform *Personal project · patriciolumbe.com · 2026*

- Built and runs a live portfolio site on Google Cloud: Firebase Hosting, Cloud Storage for media, secrets in Secret Manager.
- Provisioned everything in Terraform, including a five minute uptime check with alerting and a monthly budget alert.

- Deployments run through GitHub Actions with Workload Identity Federation: short lived tokens, no service account keys stored.

PROFESSIONAL EXPERIENCE

Team Member, Burger King *Portet-sur-Garonne, Toulouse, France · 2023 – June 2026*

- Fast paced customer service and food preparation in a high volume restaurant, part of a multicultural shift team.
- Held this job while self funding a full career change into cloud engineering, building the projects above outside working hours.

EDUCATION

Université Toulouse Jean Jaurès *2022*

Mathematics and Computer Science Applied to Social Sciences (MIASHS), partial, reoriented toward cloud engineering. France

Alliance Française de Luanda *2022*

French studies, DELF B2 preparation. Luanda, Angola

Getting to Know English Centre *2019 – 2020*

English programme. Pretoria, South Africa

EFTS, Escola de Formação de Técnicos de Saúde *2014 – 2017*

Health Technician Diploma, Physiotherapy. Cabinda, Angola

CERTIFICATIONS

- AWS Certified Solutions Architect, Associate
- AWS Certified Cloud Practitioner (2025)
- DELF B2, Diplôme d'Études en Langue Française

LANGUAGES

- Portuguese, native
- French, fluent
- English, professional / technical
- Spanish, basic