

Fabio Pedro Palumbo - Lead DevOps Engineer

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Lead DevOps Engineer | Cloud Infrastructure | AWS | Kubernetes | Crypto & AI Platforms

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Summary

Lead DevOps Engineer with 12+ years designing, scaling, and operating cloud infrastructure on AWS, GCP, and Azure. Deep specialization in Kubernetes, GitOps, and Infrastructure as Code (Terraform, Pulumi) for blockchain, fintech, and AI-driven platforms. Built and operated Ethereum node fleets, agentic AI runtime infrastructure, and zero-downtime CI/CD systems serving global crypto APIs. Skilled at embedding into engineering teams, mentoring junior engineers, and driving measurable reliability and cost outcomes.

Core Competencies

Cloud Infrastructure | AWS | Kubernetes | EKS | Platform Engineering | Site Reliability Engineering (SRE) | DevOps | DevSecOps | FinOps | Cloud Cost Optimization | GitOps | ArgoCD | Flux | Infrastructure as Code | Terraform | Pulumi | CI/CD | GitHub Actions | Observability | OpenTelemetry | Datadog | Prometheus | Grafana | Service Mesh | Cloud Native | CNCF | Cryptocurrency Infrastructure | Blockchain | Ethereum | Web3 | IPFS | Layer-2 | EVM Nodes | AI Platforms | Agentic AI | LLMops | MLOps | GenAI | RAG | Vector Databases | GPU Workloads | Python | Go | Bash | Linux | Microservices | Distributed Systems | High Availability | Disaster Recovery | Multi-Account AWS | Landing Zones | Karpenter | Helm | Docker | PostgreSQL | Kafka | Mentoring | Team Leadership

Selected Achievements

- Architected and operated production Kubernetes platforms on AWS EKS hosting Ethereum and IPFS node fleets, including chain snapshot and restore automation, peer health monitoring, and zero-downtime client upgrades across Geth, Erigon, and Nethermind.
 - Standardized Infrastructure as Code across multiple product teams by migrating Terraform workspaces to env0, building reusable modules, and enforcing OPA and Checkov policy guardrails in CI.
 - Rebuilt Continuous Delivery on ArgoCD using the app-of-apps pattern, replacing legacy pipelines and standardizing GitOps delivery across crypto and AI-native workloads with significantly reduced mean deploy time.
 - Designed and rehearsed disaster recovery procedures for production crypto infrastructure on AWS, including snapshot-based recovery for stateful Ethereum nodes and multi-availability-zone failover for ledger and trading microservices.
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Skills

Cloud Platforms: AWS (EKS, EC2, Lambda, S3, RDS, DynamoDB, VPC, IAM, KMS, Route 53, CloudFront, SQS, SNS, Step Functions, EventBridge, API Gateway, Bedrock, CloudFormation, CloudWatch, Athena, Glue, Kinesis, X-Ray, SES, SSM, ElastiCache, DAX, Workspaces, QuickSight), Google Cloud Platform (GCP), Microsoft Azure.

Containers and Orchestration: Kubernetes (EKS, GKE, AKS), Docker, Helm, Karpenter, Amazon ECS, ArgoCD, Flux v2, Istio, Linkerd.

Infrastructure as Code: Terraform, Pulumi, AWS CDK, CloudFormation, env0, Crossplane.

CI/CD: GitHub Actions, GitLab CI, CircleCI, Jenkins, AWS CodePipeline, ArgoCD app-of-apps, Flux.

Observability and SRE: Datadog, OpenTelemetry, Prometheus, Grafana, ELK, New Relic, Dynatrace, Amazon CloudWatch, SLO and error-budget design.

Languages: Python, Go, Bash, Groovy, Java, Node.js.

Data and Messaging: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Apache Kafka, Apache Spark, pgvector, Weaviate.

Blockchain and Web3: Ethereum execution clients (Geth, Erigon, Nethermind), IPFS, Web3 RPC and WebSocket APIs, Layer-2 networks, EVM node operations.

AI and Agentic Workloads: LLM gateway infrastructure, vector database operations, GPU node pools on EKS, async agent orchestration (SQS, Step Functions, Temporal), Amazon Bedrock, RAG-pipeline plumbing.

Security and Policy: OPA, Checkov, IAM design, KMS, SonarQube, secrets management (AWS Secrets Manager, HashiCorp Vault).

Methodologies: Agile, Scrum, TDD, BDD, GitOps, SRE, FinOps, Platform Engineering, DevSecOps.

Education

National Technical University of Argentina - Systems Analyst, 2002 - 2006

Certifications

- AWS Certified Solutions Architect - Associate (SAA), 2017
 - Certified Kubernetes Administrator (CKA), 2018
 - Microsoft AZ-204 - Developing Solutions for Microsoft Azure, 2020
 - Scrum Alliance - Certified Scrum Master
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Professional Experience

Dioscuro LLC - Lead DevOps Engineer

Jan 2025 - Present

Remote, Buenos Aires, Argentina

Dioscuro is a Buenos Aires-based DevOps consultancy embedding senior engineers into client organizations to deliver cloud infrastructure, CI/CD automation, Kubernetes platforms, and cost/security optimization. The firm has 15+ years of

combined cloud experience and a track record of 50+ deployments, 99.9% uptime, and \$500K+ in aggregated client cloud savings, serving clients including Endava and PwC.

As Lead DevOps Engineer, I run infrastructure engagements for clients across cryptocurrency, AI / agentic platforms, and cloud-native SaaS, with AWS as the primary cloud.

- Lead end-to-end AWS infrastructure design for crypto and AI-agentic clients: multi-account landing zones (Control Tower / Organizations), EKS platform engineering, and GitOps delivery with ArgoCD and Flux.
- Architect and operate Kubernetes platforms hosting Ethereum / EVM node fleets, indexers, and Web3 API gateways - including autoscaling, snapshot management, and cost-optimized Spot and Graviton node pools.
- Build runtime infrastructure for AI agentic workloads: containerized LLM gateways, vector database clusters (pgvector, Weaviate), GPU node pools on EKS, and async job orchestration (SQS / Step Functions / Temporal) supporting long-running agent tasks.
- Implement Infrastructure as Code in Terraform and Pulumi with reusable modules, policy guardrails (OPA, Checkov), and CI gating across GitHub Actions and GitLab CI.
- Drive observability across distributed systems with OpenTelemetry instrumentation, Datadog APM/RUM, Prometheus/Grafana stacks, and SLO-based alerting.
- Lead cost-optimization engagements (rightsizing, Savings Plans, Karpenter consolidation) contributing to Dioscuro's \$500K+ aggregated client savings.
- Embed into client engineering teams, mentor junior engineers through Dioscuro's Career Path program, and author runbooks and DR procedures that outlive the engagement.

Technologies: AWS (EKS, EC2, Lambda, S3, RDS, DynamoDB, VPC, IAM, KMS, Route53, CloudFront, SQS, SNS, Step Functions, EventBridge, Bedrock), Kubernetes, Terraform, Pulumi, ArgoCD, Flux, GitHub Actions, Helm, Karpenter, Datadog, OpenTelemetry, Prometheus, Grafana, Python, Go, Bash, Ethereum nodes, IPFS, OPA, Checkov, GCP, Azure.

Endava - Lead / Senior DevOps Engineer

Jan 2020 - Dec 2024

Remote, Buenos Aires, Argentina

Consensys [Infura]

Web3 infrastructure provider delivering scaled, reliable access to Ethereum, IPFS, and Layer-2 networks for global blockchain developers.

- Operated production Ethereum and IPFS node fleets on EKS at scale: chain snapshot and restore automation, peer health monitoring, and zero-downtime client upgrades (Geth, Erigon, Nethermind).
- Designed AWS multi-region architecture for low-latency Web3 RPC and WebSocket APIs serving millions of daily requests.
- Built next-generation Continuous Delivery on ArgoCD using the app-of-apps pattern, replacing legacy pipelines and significantly reducing mean deploy time.
- Migrated Terraform workspaces to env0 via code, standardizing IaC governance across blockchain product teams.
- Implemented distributed tracing with OpenTelemetry and Datadog across microservices, surfacing latency hotspots in the Web3 request path.
- Automated GitHub organization and user lifecycle management with Pulumi.

Technologies: AWS (EKS, EC2, Lambda, S3, RDS, DynamoDB, Route53), Kubernetes, Ethereum nodes, IPFS, Web3 APIs, Pulumi, Terraform, ArgoCD, Flux v2, env0, Datadog, OpenTelemetry, Grafana, GitHub Actions, Python, Bash, Node.js, GCP.

Celsius

Crypto-native earning and lending platform serving consumers worldwide via mobile and web, custodying digital assets at scale.

- Built CI/CD tooling, test automation, and Infrastructure as Code for a regulated crypto fintech workload on AWS.
- Operated EKS clusters and Amazon ECS services running custody, ledger, and trading microservices with blue/green and canary release strategies.
- Owned infrastructure monitoring and incident response (Datadog, ELK, SNS, AWS Chatbot) for high-availability financial services.
- Delivered pipelines across CodePipeline, Jenkins, and GitHub Actions integrating Terraform, Docker, and SonarQube quality gates.

Technologies: AWS (EKS, ECS, ASG, CodePipeline, Lambda), Terraform, Kubernetes, Jenkins, GitHub Actions, Datadog, ELK, Grafana, Flux v2, Python, Bash, Groovy.

Bloomberg Tax - Fixed Assets

SaaS platform for corporate and CPA fixed-asset lifecycle management, modernized via Apache Spark and a data-lake architecture on AWS.

- Containerized and migrated a .NET monolith into microservices running on EKS.
- Designed a Terraform Landing Zone for multi-account AWS isolation.
- Built GitOps delivery with Flux and Helm v3, including ephemeral Kubernetes environments for pull-request testing.
- Authored a GitLab CI framework standardizing build and deploy lifecycle across teams.

Technologies: AWS (EKS, S3, Lambda), Apache Spark, Kubernetes, Terraform, Flux, Helm, GitLab CI, Jenkins, Python, GCP.

Daeda Technologies, LLC - Lead / Senior DevOps Engineer

Jan 2019 - Dec 2019

Remote, Buenos Aires, Argentina

IT consultancy specializing in DevOps, CI/CD, Chef, Jenkins, Azure, AWS, and database services.

- Designed and operated orchestration and configuration management across hybrid AWS/Azure/GCP environments.
- Authored Jenkins pipelines and BDD frameworks for build, test, and deployment automation.
- Delivered GCP-native CD using Cloud Build and Cloud Run.
- Built observability with Grafana, New Relic, and Dynatrace.
- Standardized Terraform modules and Python tooling across teams.

Technologies: Jenkins, Python, Bash, Groovy, AWS, Azure, GCP, OpenShift, Chef, Ansible, Docker, Kubernetes, Terraform, Grafana, New Relic, Dynatrace, SonarQube, Git.

SparkDigital (under Daeda engagement)

Software development company focused on web products, mobile apps, video delivery, gaming, and big-data analytics.

- Led design and rollout of cloud services with a focus on serverless AWS architectures.
- Built and maintained deployment, monitoring, and operations tooling.
- Partnered with software engineers on system operability and incident response.

Technologies: Terraform, CloudFormation, AWS (Lambda, SNS, SQS, CodePipeline, CloudWatch, Redis), Jenkins, Kubernetes.

BlockFi (under Daeda engagement)

Crypto financial services platform offering interest accounts, lending, and trading on digital assets.

- Owned design, operation, and monitoring of AWS infrastructure for the crypto lending platform.
- Built monitoring, alerting, and self-recovery automation for in-house and third-party services.
- Drove CI/CD improvements and mentored team members on cloud operations.
- Planned capacity, availability, and DR across cloud and on-premise environments.

Technologies: AWS (Lambda, SQS, SNS, RDS, Elasticsearch, CloudWatch, S3, EC2, DynamoDB, Kinesis, API Gateway, CloudFormation, CloudFront, Glue, X-Ray, Athena, SSM, SES, ElastiCache, DAX), Terraform, Serverless Framework, Python, Node.js, Docker, Kubernetes, Jenkins, Git.

Banco Comafi - Senior DevOps Engineer

Jan 2018 - Dec 2018

Buenos Aires, Argentina

Argentine private-capital commercial bank.

- Led a DevOps team of 5 engineers delivering CI/CD and platform tooling.
- Built REST API, Java, and Angular service tooling under Agile / Extreme Programming practices.
- Adopted Domain-Driven Design, microservices, and hexagonal architectures.
- Delivered private-cloud workloads on Red Hat OpenShift.
- Integrated BDD and TDD frameworks (Cucumber, JUnit, SonarQube) into delivery pipelines.

Technologies: AWS, Azure, Red Hat OpenShift, Jenkins, REST APIs, Java, Angular, Docker, Terraform, Chef, Ansible, Puppet, Bitbucket, GitLab, Cucumber, JUnit, SonarQube.

Almundo - Senior DevOps Engineer

Jan 2017 - Dec 2017

Buenos Aires, Argentina

Fastest-growing omnichannel travel company in Latin America.

- Built foundational AWS platform and REST API delivery for the travel-tech stack.
- Owned IaC (Puppet, Terraform), automation, IP networking, and security.
- Tuned production performance and troubleshoot systems operations across the platform.

Technologies: AWS, REST APIs, Puppet, Terraform.

5CA - Senior DevOps Engineer / Semi-Senior IT Manager

Jan 2014 - Dec 2016

Buenos Aires, Argentina

Provider of scalable, data-driven outsourced customer support.

- Led cloud, IaC, deployment, and reliability projects across hybrid environments.
- Drove Cloud adoption and migration in partnership with Architecture and Security.
- Automated change management, monitoring, capacity planning, and incident response.

- Defined DevOps and automation metrics across the enterprise.

Technologies: Jenkins, AWS, Azure.

Techno-Buildings SRL - Semi-Senior IT Consultant

Jan 2013 - Dec 2013

Buenos Aires, Argentina

- Deployed and operated hardware, software, and communications infrastructure.
- Planned and rolled out new IT infrastructure.
- Implemented data-loss prevention and backup policies.

Technologies: SQL, Jenkins, AWS.