

CARLOS CASTILLO

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PROFESSIONAL SUMMARY

Senior Cloud Engineering leader with specialty in enterprise multi-cloud infrastructure (AWS & Azure), CI/CD pipeline design, and platform reliability. Proven track record operating and scaling business-critical cloud environments, designing automation and monitoring solutions, and driving organizational efficiency. Spearheading multiple infrastructure and integration initiatives directly resulting in over \$900K annual savings.

PROFESSIONAL EXPERIENCE

REDFIN

Senior Cloud Operations Engineer
Cloud Operations Engineer II

Remote
2024-Present
2023-2024

Launched multi-year, enterprise-wide adoption of Spacelift as primary IaC orchestration tool, replacing legacy deployment mechanisms (Atlantis, CloudFormation, click-ops, etc.) resulting in over \$900K annual savings. Promoted within 11 months due to strong performance and organizational impact (13 months ahead of schedule).

- Integrated AWS WAF logs with Datadog to quickly analyze terabytes of web traffic; used this data to redesign WAF rules leading to an over 90% reduction in site interruption from malicious actors (such as bots, scrapers, and DDoS attacks)
- Designed and implemented Lambda@Edge path-based API routing system for all publicly accessible sites, managing authentication flows, secure routing patterns, and system-to-system connectivity
- Automated deployments using GitHub Actions CI/CD pipelines, implementing branching strategies, secret management, and workflow automation — reducing deployment times by over 88%
- Overhauled documentation with over 200 new articles, READMEs, and other technical blogs describing critical infrastructure
- Transformed monolithic EC2 based infrastructure to an EKS (kubernetes) Istio service mesh, resulting in 10% latency decrease
- Onboarded multiple junior engineers and mentored them on topics such as AWS networking, terraform, and automation

CLEARRESULT

Cloud Engineer II

Remote
2021-2023

Modularized terraform configurations for commonly deployed web-app infrastructure in Azure and automated CI/CD deployments for these applications using Terraform Cloud & Azure DevOps pipelines; Resulted in over 40 web-apps deployed two quarters ahead of time.

- Deployed Entra & AWS SSO integration and developed custom permission set and IAM strategy for user access to AWS console
- Implemented multi-cloud logging system by integrating AWS and Azure logs with DataDog; Used new system to improve monitoring solutions that lead to 15% faster incident response times
- Transformed thousands of DNS zones and records to terraform using python and open source tools improving DNS governance

CRAYON

Cloud Operations Engineer

Dallas, TX
2019-2021

Consulted with hundreds of customers on strategic cloud optimizations in both AWS and Azure, leveraging proprietary cloud platforms to introduce cost-effective solutions. Generated over \$2M in annual client savings through implementation of serverless architectures, reserved instances, and web-app modernization strategies.

- Onboarded hundreds of Microsoft CSP clients and assisted in navigating M365 licensing, Azure services, and AWS organizations
- Orchestrated security governance for 100+ AWS accounts, maintaining strict IAM boundaries to support clients

SKILLS & CERTIFICATIONS

Industry Certifications

- AWS SysOps Administrator; Terraform Associate; AWS Solutions Architect Associate, Azure Fundamentals, CCENT

Technical Skills

- GitHub Actions, CI/CD, Terraform, Spacelift, Pulumi, CloudFormation, Python, Bash, Kubernetes, AWS, Azure, CloudFront, Lambda, S3, RDS, Athena, Route 53, VPC, Transit Gateway, IAM, OAuth, SAML, JWT, API Gateway, Datadog, DNS, Cloudflare, CDN, Entra, Git, Modules

EDUCATION

THE UNIVERSITY OF TEXAS AT DALLAS
Information Technology & Systems program

Richardson, TX
2018-2021