






Andrés Amado

Senior DevOps Engineer & SRE

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Senior DevOps Engineer & SRE with 12+ years of experience in software engineering, cloud infrastructure, and DevOps automation. Proven track record of leading cross-functional teams, implementing scalable and resilient cloud-native architectures, and driving continuous integration and delivery pipelines using modern tooling (Terraform, Kubernetes, AWS, GitHub Actions).

Skilled in infrastructure as code (IaC), cloud adoption strategies, observability, DevSecOps, and developer platform engineering. Passionate about building robust systems that empower engineering teams and deliver measurable business outcomes.

Summary of Qualifications - Proficient In

<div>Languages / Frameworks</div> <ul style="list-style-type: none">BashGolangC#.Net CoreNugetGroovyGrailsJavaMicronautSpringGradleMavenPythonFlaksDjangoFastAPIJavascriptTypescriptAngularVueJSNodeExpressLoopbackNPM/NPXGrunt/GulpYarnWebpackRubyRoR <div>Containers</div> <ul style="list-style-type: none">DockerDocker-ComposeKubernetes	<div>Configuration Management</div> <ul style="list-style-type: none">AnsibleChef <div>Automation / CI/CD Tools</div> <ul style="list-style-type: none">Jenkins CIGithub ActionsGitlab PipelinesArgoCDBamboo CIRundeckAirflowFlyte <div>IaC</div> <ul style="list-style-type: none">PulumiTerraformCloudformation <div>DVCS</div> <ul style="list-style-type: none">GithubGitlabBitbucket <div>Artifact Repositories</div> <ul style="list-style-type: none">JFrogNexusDockerhub <div>Monitoring</div> <ul style="list-style-type: none">DatadogNew RelicGrafanaSplunkPrometheus	<div>Cloud Providers / IaaS</div> <ul style="list-style-type: none">AWSAzureHeroku <div>Databases / Storage Layer</div> <ul style="list-style-type: none">MySQLPostgreSQLSQLiteMongoDBDynamoDBElasticsearchRedisMemcachedStarburst/Trino <div>Queue / Brokers</div> <ul style="list-style-type: none">RabbitMQActiveMQKafka <div>Others</div> <ul style="list-style-type: none">SDLCProcess AutomationAgilityGitOpsElastic ComputingCloud-Native Apps12 Factors AppsMicroservicesServerlessQA& QCVersioning StrategiesTDDScrum
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Languages

- Spanish (Native)
- English (Advanced)
- Portuguese (Advanced)

Last Professional Experience

Senior DevOps Data Engineer

Jan. 2023 - Present

EPAM - Bogotá, Colombia

Lead DevOps and data infrastructure initiatives in a **cloud-native analytics platform** for a Fortune 500 client. Work across DevOps, SRE, Data Engineering, and Platform teams to support **analytics workloads on AWS and EKS**, improving scalability, cost visibility, and developer productivity.

Key Achievements:

- Drive the implementation of **Infrastructure as Code** using **Terraform**, ensuring consistency and traceability across environments.
- Optimize and maintain an **EKS-based analytics platform**, ensuring security, scalability, and reliability for high-demand services.
- Implement and refine **CI/CD pipelines**, **observability tooling**, and **compliance automation** for platforms like **Trino**, **Airflow**, and **JupyterHub**.
- Integrate **OpenTelemetry** and **OpenLineage** to improve monitoring, traceability, and data pipeline transparency.
- Deliver PoCs and architectural solutions for key internal tools, including **ShinyProxy**, **Databricks**, and reporting dashboards.

Highlighted Contributions:

- Developed a **Trino test automation suite**, now adopted across teams as a reference framework for service validation.
- Refactored **Starburst/Trino scaling automation**, enhancing performance, reliability, and observability.
- Improved **JupyterHub Docker image build process**, reducing image size and build time by resolving memory issues and applying best practices.

Technologies worked with: *AWS, AWS EKS, Terraform, Airflow, Jupyter, Spark, Vault, Trino, Starburst, ShinyProxy, Databricks, Datadog, Splunk*

Senior DevOps Engineer

Apr. 2022 - Dec. 2022

EPAM - Bogotá, Colombia

Lead infrastructure and automation initiatives for a global enterprise undergoing a **cloud-native transformation**. Collaborate with cross-functional teams to assess architecture, improve developer experience, and build a robust **Internal Developer Platform (IDP)**. Project spans a 3-phase engagement roadmap: assessment, target architecture definition, and strategic implementation.

Key Achievements:

- Design and implement reusable **Terraform modules** (e.g., S3, API Gateway, Lambda, KMS, Step Functions) and ensure full coverage with **unit**, **integration**, and **contract tests** using **Terratest**, **Golang**, and internal frameworks.
- Develop **custom GitHub Actions** in **TypeScript** to power CI/CD pipelines in **Terraform Enterprise**, handling module bootstrap, testing, **Sentinel** policy enforcement, and teardown.
- Contribute to the creation of a **secure and scalable IDP**, integrating legacy and modern infrastructure resources, accelerating onboarding and deployment velocity.
- Deliver **Proof of Concepts (PoCs)** to evaluate new tooling and propose process improvements aligned with DevOps maturity and cloud governance.
- Define and support standards for IaC development, testing, and compliance, enhancing collaboration and reducing tech debt across teams.
- Present **sprint demos to stakeholders**, facilitating visibility and adoption of infrastructure solutions.

Technologies worked with: *Terraform, Terraform Enterprise, Vault, Terratest, GitHub Actions, WizIO, Sentinel, Docker, Scripting, Golang, GitHub, GitHub Enterprise, AWS, Typescript, IDP*

Senior DevOps Engineer Lead

Oct. 2021 - Mar. 2022

Monokera - Bogotá, Colombia

Led DevOps initiatives at a fast-growing **insurance-tech start-up**, enabling businesses to offer **embedded digital insurance** through APIs and custom web applications. Worked with a small, high-impact team (~6 engineers) to modernize infrastructure, CI/CD, and platform automation.

Key Achievements:

- Partner closely with **engineering leadership** to define and enforce **DevOps best practices**, improving **speed, reliability, and developer autonomy** across product teams.
- Led the shift from legacy deployments on EC2 to a more **resilient, containerized architecture**, enhancing scalability and service uptime.
- Designed and implemented **CI/CD pipelines** using **GitHub Actions** and **Ansible**, accelerating the release process and minimizing deployment errors.
- Defined and championed the company-wide **DevOps strategy**, setting standards for **infrastructure automation**, monitoring, and governance.
- Mentored developers on infrastructure ownership and **"shift left" reliability practices**, resulting in fewer escalations and faster remediation cycles.
- Contributed to the design of fault-tolerant, idempotent systems that support dynamic, **API-driven sales channels**.

Technologies worked with: *Pulumi, Ansible, Packer, Vault, GitHub Actions, Python, Node, Serverless, Docker, Kubernetes, MongoDB, PostgreSQL, RabbitMQ, Airbrake, Rapid7, Sendgrid, AWS, Jenkins.*

Senior DevOps Engineer Lead

Aug. 2021 - Oct. 2021

LendingFront - Bogotá, Colombia

Led DevOps engineering efforts for a **cloud-native lending platform** serving small businesses across the U.S., focused on **automating infrastructure**, improving **security posture**, and supporting **high-availability microservices**. Worked with ~8 cross-functional engineers to scale and stabilize the platform.

Key Achievements:

- Built and maintained **scalable, fault-tolerant distributed systems** using **microservices architecture**, improving system reliability and responsiveness.
- Designed and implemented **Infrastructure as Code (IaC)** using **Terraform**, ensuring reproducibility and faster provisioning across cloud environments.
- Collaborated with developers, QA, and security teams to identify and implement **automation opportunities** for builds, testing, and deployments.
- Introduced **security controls and compliance validation** mechanisms, including policy enforcement and secrets management across the stack.
- Improved **release workflows and CI/CD pipelines**, reducing manual overhead and enhancing deployment traceability and consistency.
- Contributed to architectural decisions that helped optimize infrastructure cost and operational maintainability.

Technologies worked with: *Terraform, Ansible, Packer, GitHub Actions, Python, Node, PostgreSQL, AWS, Jenkins.*

Senior DevOps Engineer

Jan. 2021 - Jul. 2021

Endava - Bogotá, Colombia

Worked as part of a **Cloud Engineering team** supporting a major Canadian **automotive safety technology client**, focused on building and maintaining **highly available, scalable architectures** across multiple **Azure environments** and **Kubernetes clusters**. Collaborated within an agile, cross-functional team (~10 engineers) to deliver DevOps and platform solutions that powered production-critical systems.

Key Achievements:

- Designed and implemented **CI/CD workflows** tailored for multiple **Kubernetes environments**, enabling **faster and safer releases** across production workloads.
- Developed automated **unit and integration tests** for infrastructure changes, significantly reducing manual deployment errors and downtime.
- Implemented **Policy-as-Code** frameworks using tools like **Terraform** and **OPA/Sentinel**, enforcing compliance and validating configurations proactively.

- Wrote reusable security, reliability, and **cost control policies** to improve governance and platform consistency across environments.
- Contributed to automation of **serverless application deployments**, improving platform flexibility and reducing operational overhead.
- Worked closely with development teams to improve **observability and alerting**, aligning DevOps solutions with application reliability goals.
- Define **Policy-as-Code** to enforce compliance across the infrastructure proactively and proactively validate the correct configuration. Also, write policies/rules that check for security, cost, reliability, and linting.

Technologies worked with: *Azure Virtual Machines (VMs), Azure Container Service, Azure App Services, Azure Storage, Azure SQL Database, Azure DocumentDB, Azure Redis Cache, Azure Kubernetes Service, Istio, Portworx, Terragrunt, Terraform, Helm, Ansible, Opsgenie, New Relic, Elastic Stack, Jenkins.*

Senior DevOps Engineer & SRE

Nov. 2018 - Oct. 2020

ADL Digital Lab - Bogotá, Colombia

Part of the founding DevOps team at ADL Digital Lab, leading cloud adoption and DevOps enablement for one of Colombia's largest banking groups. Supported the digital transformation of over **50 projects** across multiple subsidiaries, serving more than **12 million end users**. Collaborated with cross-functional teams including developers, QA, security, and platform engineers.

Key Achievements:

- Led the development and rollout of the first **CI/CD pipelines, IaC strategy, and artifact/version control infrastructure**, laying the foundation for future platform scalability.
- Spearheaded the implementation of **AWS cloud architecture**, accelerating the delivery of digital financial products through automation and infrastructure reliability.
- Defined and maintained reusable **workflow and reference architectures** for testing, building, deploying, and monitoring, reducing manual work and **increasing engineering velocity**.
- Managed and scaled internal tools for **access and governance, source code management, test automation, and configuration management**, improving traceability and compliance.
- Directed the **DevOps Automation Team**, owning the evaluation and integration of new technologies for release orchestration and observability.
- Ensured **security, scalability, and maintainability** across all DevOps solutions, contributing directly to the success of digital banking channels and analytics platforms.

Technologies worked with: *Terraform, Terraform SDK, Terraform Providers (Github, LDAP, Datadog, Artifactory, Sonarqube, AWS, Azure), Packer, Active Directory, SSO & SAML, AWS, Datadog, Docker, Artifactory, JFrog, SonarCloud, Sonarqube, AWS, MongoAtlas, GitHub & GitHub Enterprise, Jenkins Shared Libs, Jenkins DSL, Jenkins CaaS, Prowler, JFrog Xray, Dependabot, AppCenter, Groovy, Python, Golang.*

Education

BS, Systems Engineering

Jan. 2005 - Nov. 2010

Universidad Nacional de Colombia

- CoISWE (*Colectivo de Investigación en Ingeniería de Software*) research group assistant
- Teacher assistant in the following subjects; OS (Operating Systems), OOP (Object-Oriented Programming), and Software Architecture
- GNU/Linux Users Group director
- Free Software Installation Festival active member

Licenses & Certifications

GitHub Advanced Security

Jul. 2024 - Jul. 2027

[GitHub](#)

Credential ID: 09992ff6-b940-4677-a311-e3ec8bbfbcc4

GitHub Admin

Jun. 2024 - Jun. 2027

[GitHub](#)

Credential ID: d1484722-4c65-4ad3-9389-fdf5d4edc79a

GitHub Actions

Jun. 2024 - Jun. 2027

[GitHub](#)

Credential ID: 1aec8753-431c-45df-b5e2-bb9d94842b01

GitHub Foundations

Jun. 2024 - Jun. 2027

[GitHub](#)

Credential ID: bfd2406e-3480-4ea4-9b1d-c729f679fa70

Full Stack Observability Practitioner

Mar. 2022 - No Exp. Date

[New Relic](#)

Credential ID: 253d8e0e-202e-40a6-a92f-6865010e93b4

Certified Customer Service Operations

Mar. 2022 - No Exp. Date

[PagerDuty](#)

Credential ID: d62348cb-813c-46c2-acf7-f6e168cf6565

GitOps Fundamentals

Dec. 2021 - No Exp. Date

[Codefresh](#)

Credential ID: 61ce9597607f4053c41b1611

IT Specialist - Software Development

Sep. 2021 - No Exp. Date

[CertiPort](#)

Credential ID: 4387063d-f488-44c9-8402-5ce5821ec95b

Introduction to GitOps (LFS169)

Sep. 2021 - No Exp. Date

[The Linux Foundation](#)

Credential ID: LF-x9ad25heu7

Foundation for Istio

Sep. 2021 - Sep. 2023

[Solo.io](#)

Credential ID: a813fa37-eb69-4a66-8160-3890f09be2e5

Essentials for Istio

Aug. 2021 - Aug. 2023

[Solo.io](#)

Credential ID: eef49d63-05f5-4a6b-853e-3747d6ef23c0

Gitlab Certified Associate

Jul. 2021 - No Exp. Date

[Gitlab](#)

Credential ID: 2EG2MaZUScCZpRbRVxAyBg

Gremlin Certified Chaos Engineering Practitioner (GCCEP)

Jul. 2021 - No Exp. Date

[Gremlin](#)

Credential ID: 35920687

ISO/IEC 27001 Information Security Associate

Feb. 2021 - No Exp. Date

[SkillFront](#)

Credential ID: 64301905918911

ISO 9001 Quality Management Systems Associate

Feb. 2021 - No Exp. Date

[SkillFront](#)

Credential ID: 72879135349422

Microsoft Certified: Azure Fundamentals

[Microsoft](#)

Credential ID: [9f7289fa-841d-4570-96ed-6b0ed7e4d948](#)

Jan. 2021 - No Exp. Date

Cyber Security Foundation Professional Certificate (CSFPC)

[CertiProf](#)

Credential ID: [51824682](#)

Nov. 2020 - Nov. 2022

DevOps Essentials Professional Certificate (DEPCP)

[CertiProf](#)

Credential ID: [43630167](#)

Sep. 2020 - Sep. 2022

Scrum Foundations Professional Certificate (SFPC)

[CertiProf](#)

Credential ID: [JLSTRFRDPT-VHZBTNVK-YBWRTDSWTS](#)

Aug. 2020 - Aug. 2022

Certificate Jenkins Engineer 2020 (CJE)

[CloudBees](#)

Credential ID: [19392578](#)

Jun. 2020 - No Exp. Date

HashiCorp Certified: Terraform Associate

[HashiCorp](#)

Credential ID: [61dbcea4-a76e-456e-92e7-c029dec](#)

Sep. 2019 - May. 2022