Andrés Camilo Amado C.

Senior DevOps Engineer & SRE

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Summary

I'm a Colombian polyglot, multi-paradigm, non-dogmatic Software Engineer, a self-starter, and a hands-on leader who loves technology.

I'm a Universidad Nacional de Colombia Software Engineer. I have more than 12 years of experience collaborating with companies and people in the IT sector to achieve their goals, providing knowledge in the analysis and software development, with special relevance in programming languages such as Java, Groovy, Python, and recently Golang, results-oriented and agile development methodologies.

From my years in software, I had the chance to experience different facets of software development and I've been exposed to many programming languages, technologies, and platforms.

Cloud architecture is my passion and I believe in providing a TechOps platform that empowers developers to build, release, and support their best work.

I have experience supporting a DevOps culture across Engineering and Managing teams to support global 24x7 applications.

I've been worked in both B2C and B2B environments.

Skills & Knowledge

Back-end development: I've been working on several backend tools in a range of technologies, such as Java (Spring, Groovy, Grails, Gradle), Scala (Play, SBT), Ruby (RoR), Python (Flask, Django), Node (Express, Loopback) and C# (.NET framework, .Net Core) and recently Golang (Cobra, Beego, GoKit, Gorilla). One of my main activities is tearing apart large codebases into manageable microservices, pushing the company closer to a services-oriented architecture.

Front-end development: Lately I've been doing a lot of front-end development with an emphasis on MVC and MVW frameworks such as Angular, React, and Ember focused on the product, UX, and great SPA performance. I'm learning VueJS to create awesome PWAs!

DevOps mindset: I also spend some time as Kubernetes & Docker and CD/CI environment advocate, teaching DevOps through example and tech talks, and speaking about good development practices when I have the chance. My main responsibilities included leading and implementing initiatives such as Continuous Integration with Automated Tests, establishing deploy workflows for Continuous Deployment and Continuous Delivery agnostic to the platform (GCP, AWS, Azure, Heroku), performing code reviews, and helping the team improve their productivity, coverage and reduce debt.

In recent years I discovered that there are very good development teams in the market, but they need a "push" to improve their speed, reliability & traceability, minimize the opportunity for errors, reduce the need for re-work, enhances process enforcement, and atomic changes. Since then (and without knowing it at the beginning), I have been part of the first line of the "DevOps & SRE" army and I am a faithful believer in promoting concepts such as Agility, CI/CD, Cloud Computing, Containerized Environments, Process Automation, Configuration Management, Empowerment and Flexibility of Development Teams, Immutable Infrastructure as Code, Elastic Computing, Orchestration vs Choreography, Microservices, Serverless, Scalable Provisioning and Sizing, TDD, Quality Assurance & Quality Control, Versioning Strategies and a lot of good practices that improve both product quality and our experience creating awesome and relevant software.

Other interests include agile development, re-engineered and code refactoring, continuous learning, and distributed systems in general.

Proficient In

- Docker
- Ansible
- C#
- AWS
- Liquibase
- Redis
- MongoDB
- Jenkins CI
- Typescript
- RoR
- Travis CI
- JFrog
- Bitbucket

- Heroku
- Solr/Lucene
- Elasticsearch
- GoCD
- Python
- Flaks
- Django
- Spring
- RabbitMQ
- ZeroMQ
- Backbone
- Rundeck
- Solr/Lucene

- Mencached
- Groovy
- SBT
- Scala
- Play
- Akka
- Selenium
- Sonarqube
- Gradle
- Maven
- Bamboo CI
- Golang
- Nuget

- NPM
- Grunt/Gulp
- Webpack
- Git/Mercurial
- Angular
- VueJS
- Java
- Grails
- Nexus
- Kubernetes
- Terraform
- Datadog
- NewRelic

Professional Experience

Senior DevOps Engineer
January 2021 - July 2021

Endava - Bogotá, Colombia

As a member of the Cloud Engineering team for a Canadian transportation company, my primary responsibility is to build/maintain highly available and scalable modern architectures supported on multiple Kubernetes clusters, cloud provider services (Azure), and the Serverless paradigm. Define workflows and tools that allow different strategies for continuous deployment in productive environments, increasing the speed and quality of the development team.

Also, run Unit & Integration tests to validate infrastructure changes before deploying them to the production environment and orchestrate automated deployments by programming them within application code.

In this Endava project, I had the opportunity to define Policy-as-Code to proactively enforce compliance across our infrastructure and proactively validate the correct configuration. Also, write policies/rules that check for security, cost, reliability, 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
November 2018 - October 2020

ADL Digital Lab - Bogotá, Colombia

Identify, create, automate and maintain workflows/pipelines and reference architectures, saving time and engineering efforts, accelerating the productivity of software development teams, and enhance the entire development lifecycle across different projects: Cloud architecture, testing, building, deployment, monitoring, and product evolution, taking into account principles of security, scalability, and maintenance, facilitating the continuous delivery of relevant financial products in a fast, safe, and effective way.

I worked closely with senior engineering leadership and development teams to guide the application of best engineering practices and achieve increased speed and traceability, minimize the opportunity for errors, reduce the need for rework, and in general; Align processes to results and business according to the DevOps strategy and culture.

My daily responsibilities as Leader of the DevOps Automation Team include identification, evaluation, and implementation of different tools (most of them developed in-house) for; Access & governance management, source code management, software build processes, configuration management, test strategies, artifact management, infrastructure provisioning, release orchestration, and efficient monitoring.

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

Senior DevOps Engineer

Jan 2018 - November 2018

Globant - Bogotá, Colombia

Technical operations leader for a cross-functional team including DevOps, Database Administrators, Operations, Infrastructure, Information Security, and AWS Cloud Support for a banking project.

Duties include: Having a pulse on scaling, DevOps pipeline for the Engineering teams, DBA support for the application, AWS cloud support including automated monitoring and alerting, think strategically, and develop processes, tools, and frameworks that help ensure effectiveness across the team.

Effectively collaborates with the team and stays on the same page. Realizes the unique contributions and ideas the team provides and have the ability to translate those ideas into functional plans.

At Globant, I had the opportunity to participate in the administration and eventual transformation of pipelines that support teams in processes of integration and continuous deployment of both product and IaC, likewise, I led the creation of tools for internal use that helped detect enhancements and automate tasks to improve the DevOps culture as well as reduce time to market.

Technologies worked with: Terraform, Rundeck, NewRelic, Docker, Nexus, Sonarqube, AWS, Gitlab, Bitbucket, LDAP, PGSQL, Liquibase, Jenkins, Bamboo CI, Groovy, Python

Lead Software Architect & DevOps

June 2017 - Jan 2018

Coink - Bogotá, Colombia

Design and programming of several mission-critical components for banking systems. At Coink my role was to drive and support the teams to make the best decisions in order to help our product achieve the next level as the best Colombian banking app.

My second major responsibility was scaling the team's workflow. This was achieved in little time through the adoption of DVCS, pull requests for code reviews, REST API based architectures for smaller products, and a strong focus on rapid and continuous deployment. This allowed the company to grow.

Technologies worked with: Docker, C#, .NET Framework, .NET Core, AWS, PGSQL, Liquibase, Jenkins CI, Gitlab, Nuget, Nexus, Redis, MongoDB, Angular, WebPack, Python, Flask, WebSockets, RaspberryPI, Raspbian

Tech Lead & DevOps

June 2016 - June 2017

PSL S.A - Bogotá, Colombia

As a Technical Leader in PSL, I had the opportunity to lead several development teams, focused on goals and results, always helping the team to meet our objectives. I was fortunate to work with large international software companies such as Mulesoft and Kyani.

My main responsibilities included the analysis and documentation of the architecture of the systems to be implemented, load test, performance test, technical decision making, and correction of problems encountered, as well as design and integration of new systems with existing solutions.

I was a member of the DevOps internal team, where my main responsibilities included leading and implementing initiatives such as Continuous Integration with automated tests, establishing deploy workflows for continuous delivery, performing code reviews, and helping the team improve their productivity, coverage, and reduce debt.

Technologies worked with: Docker, Java8, Gradle, Nexus, Spring, Spring Data, Spring JPA, Spring MVC, Spring Web, Spring Security, Spring Batch, Springboot, Bash Scripting, Jenkins CI, Bamboo CI, Gitlab, Cucumber, Jasmine, Karma, TSLint, TypeScript, Grunt, Gulp, Bower, WebPack, Angular, Electron, Protractor

Full-Stack Developer   October 2015 - June 2016

FlashVote, Government Sciences Inc - Incline Village, Nevada,
United States

As a full-stack developer at FlashVote, I was fortunate to work on a small, agile development team of excellent people and human quality who want to make significant changes in decision-making in local governments based on citizen participation.

My contribution to the team was to implement new functionalities, performance improvement tasks, service tuning to ensure high availability as well as improve the development process through the integration of new quality assurance tools and static code analysis.

Technologies worked with: Docker, AWS, Travis CI, Bash scripting, Heroku, Ruby on Rails, MongoDB, CoffeeScript, EmberJS

Full-Stack Developer   July 2015 - October 2015

Neoway Business Solutions - Florianópolis, Brazil

I joined Neoway to work with the Data Science team focused on the best techniques and apply the best available technology to build and assure high technical quality in our team's code, bettering our continuous integration and deployment, design and implement microservices and tools for large-scale data processing.

Technologies worked with: Docker, GoCD, Solr/Lucene, Reactor, Spring Batch, Spring Data, RabbitMQ, ZeroMQ, Stomp, PostgreSQL

Full-Stack Integrator   September 2014 - July 2015

UpPoints SA - Florianópolis, Brazil

As UpPoints' Full-stack integrator, my main responsibilities included leading and implement strategies for agile collaboration between development and operations staff throughout all stages of the development lifecycle oriented continuous product improvement.

Study and build an environment (architecture/product) rapidly adapt to change.

Technologies worked with: Python, Java, Dart, Quality Control, Continuous Integration, Continuous Delivery, Gradle, Docker, AWS, Softlayer, Microsoft Azure

QA & Full-Stack Developer   January 2011 - September 2014

VivaReal - Sao Paulo, Brazil

I joined VivaReal at a very early stage with a very small engineering team. At the time my main responsibilities included building a scalable and highly available real estate website.

At VivaReal, the largest real estate marketplace in Brazil, I built new website features and APIs for internal and external systems integrations, reshaping the company's technology base, moving from Java legacy systems to new systems based on top Java and Spring. I also briefly worked on build automation tools and legacy systems maintenance when needed.

Technologies worked with: Groovy, Spring AMQP, RabbitMQ, Spring Data, MongoDB, BackboneJS, RequireJS, Grunt, Mustache, ElastiCache/Memcached, Apache Lucene/Solr. Gradle, Jenkins, Java, Git, Github, Spring MVC, Mustache, Swagger, Akamai Dynamic Site Accelerator, MongoDB, AWS, Spring HATEOAS,Selenium, Selenium Grid, Hudson/Jenkins CI, SonarQube, JUnit, TestNG, Mockito, Spock, JMeter, Checkstyle, FindBugs, PMD y Maven

Education

Computer Systems Engineer   2005 - 2010

Universidad Nacional de Colombia

- ColSWE (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 manager
- Free Software Installation Festival active member

Certifications

GitLab Certified Associate   July 2021 - No Exp. Date

Gitlab

Credential ID: 2EG2MaZUScCZpRbRVxAyBg

Gremlin Certified Chaos Engineering Practitioner (GCCEP)   July 2021 - No Exp. Date

Gremlin

Credential ID: 35920687

ISO 9001 Quality Management Systems Associate   February 2021 - No Exp. Date

SkillFront

Credential ID: 72879135349422

ISO/IEC 27001 Information Security Associate   February 2021 - No Exp. Date

SkillFront

Credential ID: 64301905918911

Microsoft Certified: Azure Fundamentals   January 2021 - No Exp. Date

Microsoft

Credential ID: 9f7289fa-841d-4570-96ed-6b0ed7e4d948

Cyber Security Foundation Professional Certificate (CSFPC)   November 2020 - November 2022

CertiProf

Credential ID: 51824682

DevOps Essentials Professional Certificate (DEPCP)   September 2020 - September 2022

CertiProf

Credential ID: 43630167

Scrum Foundations Professional Certificate (SFPC)   August 2020 - August 2022

CertiProf

Credential ID: JLSTRFRDPT-VHZBTNVK-YBWRTDSWTS

Certificate Jenkins Engineer 2020 (CJE)   June 2020 - No Exp. Date

CloudBees

Credential ID: 19392578

HashiCorp Certified: Terraform Associate   September 2019 - September 2021

HashiCorp

Credential ID: 61dbcea4-a76e-456e-92e7-c029decdbc6a

Sun Certified Solaris Associate (SCSAS)   September 2011 - September 2013

Sun Microsystems

Languages

- **Spanish -** Native
- **Portuguese** - Bilingual proficiency
- **English** - Limited working proficiency