



# Luiz Felipe Costa

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## SKILLS

Infrastructure	Ansible, Podman, Docker, Hashicorp Terraform, Hashicorp Vault, Kubernetes
Programming languages	Python, Go, Bash, PHP, Java, .NET.
AWS	VPC, EC2, ECS, EKS, CodePipeline, Lambda, RDS
Networking	TCP, UDP, HTTP, TLS
Monitoring	Prometheus, Grafana, AWS CloudWatch, Dynatrace
Linux server	Red Hat, Amazon Linux, Debian, Ubuntu
CI/CD	Jenkins, Travis CI, GitLab CI, AWS CodePipeline, GitHub Actions
Databases	MySQL, PostgreSQL, MS SQL
Languages	Portuguese: native language (C2)   English: advanced (C1)

## WORK EXPERIENCE

JUN 2021 - Current    Red Hat / Ansible Automation Platform    (Remote)

Red Hat is the leading open source software company, providing enterprise solutions for modernizing IT infrastructure and embracing innovation. More than 90% of Fortune 500 companies rely on Red Hat.

### Software Engineer (current)

I'm a developer of the AAP cloud offers for AWS and GCP marketplaces.

My team and I are responsible for the **entire development life-cycle**, and I play a key role in **creating the bridge between the development and the Quality Engineer team**.

### Software Quality Engineer (1 year 7 months)

I worked on the **AAP main component**, the Automation Controller, **creating testing, maintaining the internal pipelines**, and working closely with the developers to **create key features and fix bugs**.

Multiple people joined my team during that period and I **helped most of them with training and guidance** to understand **Red Hat products** and our internal tools.

Red Hat AAP (Ansible Automation Platform) is an end-to-end automation platform to configure systems, deploy software, and orchestrate advanced workflows. It includes resources to create, manage, and scale across the entire enterprise.

My two greatest achievements so far are:

- I **created the foundation of our main internal Ansible Collection** and **provided training and assistance** with Ansible automation and programming to my team.
- I had a key responsibility among the release team to **build from the source our dependencies**. That involved the **creation of internal tools and pipelines** that enable this process.

I **created internal learning sessions** in the company to teach Ansible and Linux. A great way to have the team get together and help each other with technical problems.

**My main contribution** was my role as the **Quality Engineer leader of the "Red Hat Ansible Automation Platform available from AWS Marketplace"**. I worked close to the architect and the development team during the initial design and development. Later, I **also led the "GCP Marketplace" offer**.

OCT 2019 – FEB 2021

Nextios

(Remote)

## DevOps Engineer

Nextios is an AWS partner that creates cloud solutions for corporate clients such as banks, fintech, and large multinational companies.

I was responsible for **creating disaster recovery and backup solutions** for banks on **AWS**. I also created **CI/CD** (Continuous Integration / Continuous Delivery) solutions and **HA clusters**.

I have experience **migrating legacy corporate infrastructure** to the AWS environment, creating solutions side-by-side with customer developers, and **giving training** when necessary to maintain and administrate the cloud environment.

I **architected and deployed** projects over **ECS** and **Kubernetes** (EKS) using **laC** (Infrastructure as Code): CloudFormation, **Terraform**.

I contributed to Nextios **AWS competencies certification**. For the AWS partnership, I **created PoCs** (Proof of Concept) and **workshops for AWS customers** involving technologies like AWS computing (**ECS, EKS**) and **AI workloads using GPU-optimized pipelines** (**SQS, EC2 P/G** instances).

I promoted the usage of IaC and created solutions for all Nextios customers, involving **resilient backup routines, compliance networking** creation, and **cost report extraction**.

The last customer's project I worked on involved developing a **GitOps** using **Terraform Cloud + VCS** to create a common way for Delivery teams to implement solutions and Operation teams to maintain applications.

MAR 2019 – OCT 2019

B2ML

(Contractor)

## Infrastructure Consultant / DevOps Engineer

B2ML is the largest software house in the region (Southeast MG, Brazil). The company creates and maintains software solutions for other Brazilian companies.

I architected a financial system using **laC** (Infrastructure as Code) with **Terraform on AWS**. It was a microservice environment created over **ECS** and using **CloudFront**. All the pipelines for the application building process used **GitLab CI**.

I **migrated over 90 legacy applications** based on Linux machines **to the cloud** with **containers** orchestrated by Docker Swarm.

After the legacy environment migration, I **improved the SLI** (Service Level Indicators) of all applications **to more than 99%**. I also **cut costs** by moving the environment to the cloud.

MAR 2019 – OCT 2019

LEMOBS

(Contractor)

## Infrastructure Consultant / DevOps Engineer

LEMOBS is a COPPE/UFRJ (the Brazilian's biggest innovation center) startup, creating solutions for smart cities.

I **architected and migrated** the old environment **to AWS**. At that time, the applications were migrated to EC2 instances, but using **Linux containers**.

I created **pipelines (CI/CD)** for old and new applications using **GitLab + Jenkins + Ansible**.

**The result** was a more **secure, reliable, and maintainable** environment, **ready to scale** at the fast pace of a startup.

JAN 2019 – MAR 2019

ROI Hunter

(Remote)

## DevOps Engineer

ROI Hunter is an advanced performance marketing platform for Facebook, Instagram, and Google ads.

I created automations with **Ansible** and **Hashicorp Terraform**.

I **created Ansible roles** for internal applications and tools. Some of the automation made using Ansible included the **GCP Cloud Builders** to build container images to be later deployed into GKE clusters.

JUL 2016 - DEC 2018

CAPGov / MUDES

(Intern)

## DevOps / Full Stack Developer

I worked on a UNIFEI's laboratory. We were specialized on OpenData and public policy.

### *Project: Brazilian Open Data Portal*

The Brazilian Open Data Portal ([dados.gov.br](https://dados.gov.br)) is the main portal of Brazilian government public datasets.

**I was the main developer during the portal recreation.**

### *Project: Combate Aedes*

Combate Aedes was a platform to help prefectures and states to plan public policy to prevent "aedes aegypti" propagation.

**I was the main developer** of the project and I was responsible for the **overhaul redesign and project refactoring**.

I was responsible for recreating the [dados.gov.br](https://dados.gov.br) plugin for **CKAN** (data platform) and adding new features involving technologies like **Python, JS, and CSS**.

**I created tools, pipelines,** and documentation for my team.

**My responsibilities** became similar to those of a **technical leader** during this project.

**I also created tools, pipelines,** and **documentation** for my team.

## Education

JAN 2012 - DEZ 2018

Computer Information Systems

Bachelor degree

### Federal University of Itajubá (UNIFEI), Brazil

(pt-BR: Universidade Federal de Itajubá (UNIFEI) / Sistemas de Informação)

Scholarship program

JAN 2009 - DEZ 2011

High school

### Colégio Embraer Juarez Wanderley, Brazil

Focus on engineering and mathematics.  
The college was ranked first in the state of São Paulo (Brazil), according to the MEC (2011).

Scholarship program.

## Personal projects

(2016) **Multi-system clock sync**

<https://github.com/thenets/Chronos-Sync-RPC>

(2020) **Workshop EKS + Terraform**

<https://github.com/thenets/workshop-eks>

(2018) **Docker image to build Android app**

<https://github.com/thenets/docker-android>

(2020) **PokeAPI cache for faster requests**

<https://github.com/thenets/pokeapi-cache>

(2019) **Easiest multi-platform process manager**

<https://github.com/thenets/pmzero>

(2020) **Convert asciinema to SVG online**

<https://github.com/thenets/asciinema2svg>

## Other

### Talks

Google Developers Group Itajubá 2016~2018 - **Docker for Developers**

The Developer Conference (TDC) 2020 - **Container best practices & security**

### Interests

Create **UI designs**; create and **destroy houses on The Sims**; and two of **my favorite games** of all time are **Watch\_Dogs 2** and **The Legend of Zelda – The Minish Cap**.

