

Luiz Felipe Costa

Contact Information

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Summary

Senior Software Engineer at Red Hat with 9+ years of experience in cloud infrastructure, cybersecurity, AI/automation, and DevOps across AWS/GCP. Results-focused and execution-driven with strong problem-solving abilities and continuous learning mindset. Led team transformation through influence and sustainable practices, drove security initiatives including SDL implementation and CVE management, and currently developing agentic AI systems with MCP tools. Known for technical depth, collaborative approach, and ability to balance speed and quality when facing critical deadlines.

Languages: Portuguese: native language (C2) / English: advanced (C1)

SKILLS

Category	Technologies
Security & Compliance	CVE Management, Security Audits, SELinux
Programming	Python, Go, Bash, Ansible Development
Linux	Red Hat Enterprise Linux, Amazon Linux, Debian, Ubuntu
Infrastructure	Ansible, Podman, Docker, Kubernetes, Terraform, Vault
AWS	EC2, ECS, EKS, Lambda, VPC, RDS, CloudWatch
GCP	Compute Engine, GKE, Cloud Build, Marketplace
CI/CD	GitHub Actions, GitLab CI, Jenkins, AWS CodePipeline

WORK EXPERIENCE

Red Hat / Ansible Automation Platform

Senior Software Engineer | Oct 2024 - Present

- Developing agentic AI project with AI agents and MCP (Model Context Protocol) tools, building systems that enable intelligent automation and tool integration
- Transformed team dynamics through influence and leadership, establishing sustainable team practices including daily PR reviews, cross-team engagement, and collaborative decision-making that created a "before/after" shift in team culture
- Led CVE sustainability initiative for Ansible cloud offer, designing and implementing long-lasting solutions to optimize vulnerability management processes across the organization
- Championed SDL (Security Development Lifecycle) implementation, working closely with Product Security team to establish security controls and best practices throughout the development process

Software Engineer | Jan 2023 - Oct 2024

- **Received Red Hat Security Team award** for discovering and documenting critical gaps in AAP cloud account security configuration, preventing potential security defects before customer impact
- **Built downstreaming tooling** that drastically reduced build iteration time by tracking remote dependencies and enabling offline dependency resolution
- **Delivered critical customer support** during complex investigation under tight deadlines, working extended hours to simulate issues locally and provide timely fixes across RHEL, SELinux, Podman, and AAP, ensuring successful migration
- **Designed and implemented significant automated testing enhancements** for Ansible on Cloud, improving developer experience by simplifying secure creation of cloud development environments

Software Quality Engineer | Jun 2021 - Jan 2023

- Led **Quality Engineering for Red Hat Ansible Automation Platform on AWS Marketplaces** from initial design through successful launch, establishing QE processes and test strategies
- **Maintained and enhanced internal CI/CD pipelines** for Automation Controller (AAP's main component), creating key automation features that improved build reliability
- **Created internal learning sessions** teaching Ansible and Linux fundamentals, successfully onboarding multiple team members and building team capability

Nextios

DevOps Engineer | Oct 2019 - Feb 2021

- **Architected and deployed disaster recovery and backup solutions** for banking clients on AWS
- **Led on-premise to cloud migration** for banking customer, modernizing infrastructure with **security focus** and **Infrastructure as Code** practices
- Created **CI/CD pipelines** and **high-availability clusters** using **ECS** and **Kubernetes (EKS)** with **Infrastructure as Code** (Terraform, CloudFormation)
- **Migrated legacy corporate infrastructure** to AWS, providing **training** for customers on cloud administration
- **Contributed to AWS competencies certification** by creating **PoCs** and **workshops** for **ECS**, **EKS**, and **GPU-optimized AI workloads**
- Developed **GitOps solution using Terraform Cloud + VCS** to standardize deployments across Delivery and Operations teams

B2ML

Infrastructure Consultant / DevOps Engineer | Mar 2019 - Oct 2019

- **Architected financial system** microservices environment on **AWS ECS** using **Terraform** and **CloudFront**
- **Migrated 90+ legacy applications** to cloud using **Docker Swarm** container orchestration
- **Improved Service Level Indicators to >99% uptime** while **reducing infrastructure costs**
- Implemented **GitLab CI** pipelines for application building and deployment

LEMOBS

Infrastructure Consultant / DevOps Engineer | Mar 2019 - Oct 2019

- **Architected and migrated** smart cities platform to **AWS** using **EC2** and **Linux containers**
- **Created CI/CD pipelines** using **GitLab**, **Jenkins**, and **Ansible** for legacy and new applications
- Delivered **secure, reliable, and maintainable** infrastructure **ready to scale** for startup growth

ROI Hunter

DevOps Engineer | Jan 2019 - Mar 2019

- **Created Ansible roles** for internal applications and tools
- Automated **GCP Cloud Builders** workflows for container image builds and GKE cluster deployments using **Ansible** and **Terraform**

CAPGov / MUDES

DevOps / Full Stack Developer | Jul 2016 - Dec 2018

- **Led development of Brazilian Open Data Portal (dados.gov.br)** recreation, building custom CKAN plugin with **Python, JavaScript, and CSS**
- Served as **main developer** for Combate Aedes platform, leading **complete redesign and refactoring** with **technical leadership** responsibilities
- **Created tools, CI/CD pipelines, and documentation** for team collaboration

Education

Jan 2012 – Dec 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 – Dec 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

Other

Talks:

- Google Developers Group Itajubá 2016~2018 - **Docker for Developers**
- The Developer Conference (TDC) 2020 - **Container best practices & security**
- Ambiente de Desenvolvimento Moderno e OpenSource - SECOMP UNIFEI 2024

Interests:

Create UI **designs**; manage my **homelab infrastructure**; and two of **my favorite games** of all time are **Watch_Dogs 2** and **The Legend of Zelda – The Minish Cap**.