RODRIGO TAVARES DO CARMO

⊙ Rio de Janeiro, Rio de Janeiro, Brazil ✉ rod.carmo@outlook.com ▢ +55 21 99840-3045 ▥ in/rodrigotcarmo ☁ rodrigotcarmo.github.io/portfolio/

SUMMARY

Senior Software Engineer with 9 years of professional experience, focused on backend development using **Go-Lang** and **Python**, building cloud-native distributed services and **REST APIs** on **Kubernetes** and **Docker**, and applying best **CI/CD** practices on **AWS** and **Azure**. Experienced in designing and operating large-scale **AWS EKS** platforms, with hands-on expertise in **observability** and infrastructure as code using **Terraform**. Background in financial systems Currently seeking software engineering opportunities with relocation.

EXPERIENCE

Senior Software Engineer
Nubank   **August 2025 - Present, São Paulo, SP**
· Led software development initiatives by defining project scope, designing system architecture, and mentoring junior and mid-level engineers while delivering solutions in **Go-Lang** and **Kubernetes**.
· Built, enhanced, and maintained Nubank's custom CI/CD platform using **Go-Lang** and **Kubernetes**, supporting scalable delivery, enabling over **1 million pipeline executions** across **80 million GitHub commits per week**, ensuring fast and reliable software delivery for **3,000+ engineers** globally.
· Improved cloud cost efficiency by applying resource lifecycle management via **AWS** and **Terraform**, delivering a **48.77%** reduction in operational expenses**.**
· Implemented **AWS EKS** Provisioned Control Plane using Terraform and GitOps for 6+ Kubernetes clusters, achieving a **91%** reduction in cluster latency and minimizing ETCD response spikes, directly supporting seamless delivery for high-volume CI/CD workloads.
· Wrote production-grade **Go-Lang** code daily, developing new features, fixing bugs, and designing resilient systems that improved developer productivity and platform reliability across multiple countries.
· Managed **EKS** Kubernetes clusters and AWS integrations using **Terraform** and GitOps practices to operate infrastructure as code efficiently.
· Designed and deployed microservices and **REST APIs** with **Go-Lang** and **Docker**, applying automated testing frameworks.
· Implemented observability solutions leveraging **Prometheus**, AWS **CloudWatch**, and **Grafana** by architecting and configuring monitoring stacks, which facilitated data-driven operational analytics and timely identification of platform anomalies.

Software Engineer
Nubank   **July 2022 - August 2025, São Paulo, SP**
· Contributed to the development of Nubank's custom CI/CD platform, implementing backend features and platform components using Go-Lang and Kubernetes.
· Collaborated with senior engineers on architectural decisions, delivering scalable solutions to support high-volume pipeline execution.
· Developed and maintained microservices and REST APIs with Go-Lang and Docker, writing production-ready and well-tested code.

Site Reliability Engineer (SRE)
Pag Seguro (UOL Group)   **April 2021 - July 2022, São Paulo, SP**
· Contributed to the development of the PagSeguro/PagBank brokerage platform, supporting core backend and infrastructure components.
· Automated maintenance workflows using **Python**, improving reliability and operational efficiency of core services.
· Managed multi-environment infrastructure with Terraform and **AWS EC2**, ensuring stability for business-critical applications.
· Configured and maintained **Jenkins** CI/CD pipelines to standardize build and deployment workflows.
· Improved monitoring and alerting by integrating observability tools using **NewRelic**, enabling faster issue resolution.

DevOps engineer
Ativa Investimentos   **January 2019 - April 2021, Rio de Janeiro, RJ**
· Automated server operations and deployments using **Python**, **Docker**, and **Azure** DevOps CI/CD pipelines, ensuring high system availability and consistency.
· Developed and maintained containerized automation services with Python, leveraging Git for version control and scalable deployment workflows.
· Monitored and analyzed systems and infrastructure using **Dynatrace**, tracking key performance indicators to continuously improve automation and platform reliability.
· Managed on-premise server and storage infrastructure, including Dell hyperconverged systems with VMware, running Windows Server and Linux for mission-critical trading applications (B3).
· Deployed and supported physical data center infrastructure across multiple sites in Brazil using Cisco switches and FortiGate firewalls, setting up network and security equipment for secure, high-performance connectivity.
· Supported and troubleshot Azure DevOps CI/CD pipelines, contributing to continuous integration and deployment workflows.
· Improved system reliability through backup optimization, monitoring, and alerting across Windows and Linux environments.

IT Support Technician
Ativa Investimentos   **September 2017 - May 2019, Rio de Janeiro, RJ**

- Provided end-user support for 300+ workstations across multiple branches, reducing average ticket resolution time by 20% using remote support and inventory tools.
- Organized and documented 500+ network access points across patch panels and Cisco switches, improving troubleshooting efficiency in a multi-site environment.
- Provided technical support to end users under supervision, assisting with software, hardware, and connectivity issues across multiple departments. Assisted in configuring user accounts and access permissions within Microsoft Active Directory.

EDUCATION

Kubernetes Administrator Course (CKA Preparation)
Udemy · Online · 2024

Linux Systems Administrator
4Linux · Online · 2021

Bachelor's Degree in Information Systems
University Estácio de Sá · Rio de Janeiro, RJ – Brazil · 2020 · 7.57

Python programming course
Alura · Online · 2020

English Language Exchange Program – Canada
Kaplan International English · Toronto, ON · 2017

Network Administrator Course
Udemy · Online · 2016

English Language Exchange Program – United States
Kaplan International English · Miami, FL · 2015

SKILLS

Kubernetes and Docker: 7 years of experience in managing Kubernetes clusters, architecting them from scratch, and ensuring all necessary AWS infrastructure to support.

Go and Python: 6 years of experience designing, building, and maintaining containerized applications written in Python and Go with microservices architecture and asynchronous processing, using AWS tools like SQS, SNS, and S3, ensuring scalability.

AWS: 5 years of experience designing and managing AWS infrastructure to support multiple K8s clusters, using AWS EKS, ECR, EC2, VPC, RDS, EFS, and Karpenter.

Git and Terraform: 7 years of experience with IaC management through Terraform and git version control.

Prometheus, Grafana, and others: 8 years of experience with proactive application monitoring and metric tracking, using solutions like Prometheus, Dynatrace, New Relic, AWS CloudWatch, and Grafana.

CI/CD: 6 Years of experience with CI/CD platforms like Tekton, Microsoft Azure, and Jenkins, both as a developer integrating pipelines for automated tests, deployment, and rollback, and as a senior software engineer supporting the CI/CD platform itself, maintaining its services and infrastructure scalable and resilient.

Physical data center experience: 2 years of experience with on-premises data center management, maintaining multiple logical and physical environments, like networks, Fortinet firewalls, Cisco switches, NAS storage, and Dell hyperconvergence servers.

English — advanced, Portuguese — native, Spanish — basic