

HIAGO DOS SANTOS RABELO

DevOps Engineer | AWS Certified | Azure Certified

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PROFESSIONAL EXPERIENCE

2024 - Present | Objective

DevOps Engineer

Experience as a DevSecOps engineer, both within Objective and for external clients.
Communication with international clients in English.

Tecnologies: Bash, Linux, Docker/Containers, Nginx, Kubernetes, MiniKube, Kind, Helm, ArgoCD, XWiki, Confluence, TeamCity, Jenkins Pipelines, HashiCorp Vault, External Secrets, Maven, Kotlin, Gitlab, Github, BitBucket, Jira, Terraform, JFrog, Nexus, Observability Stack (Grafana and Prometheus), Azure (ACR, AKS, Files), AWS (IAM, S3, WAF, Cognito, SES, CloudWatch, Lambda, DynamoDB, CloudFront, APIGateway, CloudTrail, Kinesis Data Firehose).

2021 - 2024 | Radio Memory

Backend Developer with Cloud and ML Focus

API development using Flask and FastAPI (Python) on AWS and Azure infrastructure.
Containerization using Docker and Docker Compose.
Azure Kubernetes Service (AKS) infrastructure provisioning with Terraform following Infrastructure as Code (IaC).
Built CI/CD pipelines for automated deployment of apps and models on AWS and Azure using Jenkins.
Test coverage through unit, integration, and end-to-end testing.
End-to-end machine learning lifecycle involvement: data mining, model training, and deployment on AWS.
Neural network design for computer vision tasks such as object detection, segmentation, and classification.
Outlier detection using unsupervised learning algorithms.
System observability setup using AWS CloudWatch and X-Ray, with logs, metrics, and traces.
Development of Bash scripts for automation and system management.
Responsible for managing the AWS account and overseeing machine learning infrastructure and services.

Tecnologies: Python, Jenkins, Terraform (IaC), Azure AKS, Bash, Flask, FastAPI, Pytorch, Numpy, Keras, Pytest, Docker, Docker-Compose, Git, ClearML, AWS (API Gateway, EC2, EBS, EFS, S3, Lambda, SQS, SNS, CloudWatch, XRay, Route53, VPC, IAM, Secrets Manager, Elastic Load Balancer), Trello, Streamlit.

VOLUNTEER WORK

2018 - 2022 | UnBall Team - Robot Soccer

Competition Team (Autonomous Robots)

Develops and teaching of Python scripts, reinforcement learning and neural networks.
Responsible for financial management and generating monthly reports for project contributors.
Used Agile methodology and Scrum for project management.

2017 - 2019 | Teaching Assistant at Universit of Brasilia (UnB)

2019 | Introduction to Linear Algebra

2018 | Calculus 3 (Multivariable Differential and Integral Calculus)

2018 | Calculus 2 (Series and Differential Equations)

2017 | Algorithms and Computer Programming

LANGUAGES

French: Beginner
Spanish: Intermediate
English: Advanced
Portuguese: Native

CERTIFICATIONS

AWS Cloud Practitioner
AWS Solutions Architect Associate
AWS Developer Associate
AZ-900: Azure Fundamentals
AZ-104: Azure Administrator Associate

EDUCATION

2016 - 2023 | Bachelor's Degree in Mechatronic Engineering

University of Brasília (UnB)

Final Course Project: "Reinforcement Learning applied to VSSS category of Robotic Soccer". (Development of an autonomous agent able of scoring goals through neural networks, reinforcement learning algorithms and Pytorch framewok.)

2014 - 2017 | Technician's Degree in Electrotechnics

Technical School of Brasília (ETB)

PAPER PUBLICATIONS

2023 | Minimal underactuated synchronization with applications to secure communication

Journal: Communications in Nonlinear Science and Numerical Simulation (Qualis A1)

PERSONAL PROJECTS

Database for Social Network

Utilized Br Model for developing Entity-Relationship and Relational Model diagrams. Applied relational algebra for query applications. Table normalization and use of PostgreSQL as engine.

SQL Data Analysis

Advanced SQL techniques for obtaining Insights in a public relational database.

Serveless API AWS

This repository demonstrates a simple project showcasing how to create an API in AWS using Terraform + FastAPI + Swagger Docs + Pytest + Docker with multi-stage build + JWT + Lambda + CI/CD Pipeline with manual approve, automatic tests and rollback in failure case.

Personal Website hosted on AWS

This repository demonstrates how my own website was made in AngularJS and hosted on AWS using resources such as: Terraform, S3, CloudFront, Route53.

Facial Recognition using neural network

This project aims to showcase the use of Pytorch to recognize people. Some topics are convered, such as: Pytorch lightning framework, siamese models, augmentation techniques, JSON, matplotlib.

Pests Classification

Project of a neural network using the Keras Framework to classify pests in tomato plantations.