

HIAGO DOS SANTOS RABELO

DevOps Engineer | AWS Certified | Azure Certified

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📍 Brasília - Brazil

PROFESSIONAL EXPERIENCE

DevOps

📅 Sep 2024 – Present

📍 Objective

Assigned to the role of DevOps.
Communication with international clients in English.

Tools used: Shell Script, Linux, Docker, Kubernetes, Helm, ArgoCD, Jenkins, Gitlab, Github, Jira, Terraform, AWS, Azure.

Backend Developer with Cloud and ML Focus

📅 Jun 2021 – Sep 2024

📍 Radio Memory

API development using Flask and FastAPI (Python) on AWS infrastructure.
Containerization using Docker and Docker Compose.
Infrastructure provisioning with Terraform following Infrastructure as Code (IaC) principles.
Model and dataset versioning through ClearML for reproducible machine learning workflows.
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.

Tools used: Python, Shell Script, Flask, FastAPI, Pytorch, Numpy, Keras, Pytest, AWS, Docker, Git, ClearML, API Gateway, EC2, EBS, EFS, S3, Lambda, SQS, SNS, CloudWatch, XRay, Route53, VPC, IAM, Secrets Manager, Elastic Load Balancer, Secrets Manager, Trello, Plotly, Streamlit.

VOLUNTEER WORK

Competition Team (Autonomous Robots)

UnBall Team - Robot Soccer

📅 Feb 2018 - Jun 2022

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.

Teaching Assistant

Introduction to Linear Algebra

📅 Mar 2019 – Jul 2019

📍 UnB

Calculus 3 (Multivariable Differential and Integral Calculus)

📅 Aug 2018 – Dec 2018

📍 UnB

Calculus 2 (Series and Differential Equations)

📅 Mar 2018 – Jul 2018

📍 UnB

Algorithms and Computer Programming

📅 Aug 2017 – Dec 2017

📍 UnB

LANGUAGES

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

CERTIFICATIONS

AWS Cloud Practitioner
AWS Solutions Architect - Associate
AWS Developer - Associate
Microsoft Azure Fundamentals (AZ-900)

EDUCATION

Mechatronic Engineering

University of Brasília (UnB)

📅 Jul 2016 – Dez 2023

Final Course Project: Reinforcement Learning applied to VSSS category of Robotic Soccer.

Description: Development of an autonomous agent able of scoring goals through neural networks, reinforcement learning algorithms and Pytorch framewok. ([repository link](#))

Electrotechnical Technician

Technical School of Brasília (ETB)

📅 Aug 2014 – Oct 2017

🕒 1836 h

PAPER PUBLICATIONS

Minimal underactuated synchronization with applications to secure communication

📅 Jun 2023

Journal: Communications in Nonlinear Science and Numerical Simulation

Qualis: A1 (94% percentile)

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.

Image Processing

This repository contains some image processing works that were made during Image Processing subject, such as: k-means, interpolation, homomorphic filtering, reject notch, median and low pass filters, histogram analysis and morphological operations.