HIAGO DOS SANTOS

Mechatronics Engineer | Data Scientist | AWS Certified

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PROFESSIONAL EXPERIENCE

Data Scientist

📅 Jun 2021 – Present   📍 Radio Memory

- Deployment of APIs using Chalice, Flask and FastAPI on AWS infrastructure using Docker and Terraform
- Works on all the steps of model development, from data mining and model training to model deployment on AWS infrasctructure
- Development and finetuning of neural network based on computer vision tasks, such as: keypoint detection, semantic segmentation, object detection, single and multilabel classification, siamese model, generative adversarial network (GAN) and transformer
- Use of unsupervised algorithms to outlier detection and streamlit tool to result presentation

VOLUNTEER WORK

Competition Team (Autonomous Robots)

UnBall Team - Robot Soccer

📅 Feb 2018 - Jun 2022

- Develops and teaching of Python scripts
- Develops and teaching reinforcement learning and neural networks
- Responsible for financial management and generating monthly reports for project contributors

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

Programming Marathon

IV Marathon

📅 2016/02   📍 UnB

The aim was to solve logic problems using programming to implement solutions.

LANGUAGES

English
Understands reasonably, speaks reasonably, reads well, writes reasonably.

EDUCATION

Mechatronic Engineering
University of Brasília (UnB)

📅 Jul 2016 – Dez 2023

Electrotechnical Technician
Technical School of Brasília (ETB)

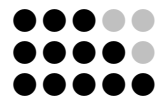📅 Aug 2014 – Oct 2017   ⏱ 1836 h

AWS CERTIFICATION

- AWS Cloud Practitioner
- AWS Solutions Architect - Associate
- AWS Developer - Associate

SKILLS

Django, JavaScript, HTML5, CSS, C++, AWS, Terraform   ●●●●○○
Docker, Git, OpenCV, MySQL, PostgreSQL, FastAPI   ●●●●○
Keras, NumPy, Pytorch, C, Python, Microsoft Office Suite   ●●●●●

SCIENTIFIC PUBLICATIONS

Minimal underactuated synchronization with applications to secure communication

📅 Jun 2023

Journal: Communications in Nonlinear Science and Numerical Simulation
Qualis: A1 (94% percentile)

SCIENTIFIC RESEARCH

Underactuated hyper chaotic synchronization with applications in secure telecommunications

📅 Aug 2019 – Nov 2020

Published in the 17th Congress of Scientific Initiation of the Federal District

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 + Pytest + ECR + JWT + Lambda.

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

FINAL COURSE PROJECT

Reinforcement Learning applied to VSSS category of Robotic Soccer

📅 Aug 2020 – Jul 2023

Development of an autonomous agent able of scoring goals through neural networks and reinforcement learning algorithms.