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▣ My portfolio

EDUCATION

Information Systems	Belo Horizonte, Brazil
Bachelor	2021 – 2024

- Pontifícia Universidade Católica de Minas Gerais (PUC-MG)

Computer Networks	Belo Horizonte, Brazil
Technical Course	2016 – 2018

- Centro Federal de Educação Tecnológica de Minas Gerais (CEFET-MG)

SKILLS

</> CI/CD · Docker · Jenkins
Java · NodeJS · Python · PHP
TensorFlow · Transformers
Git · Linux

🖻 English · proficient
Portuguese · native

EMPLOYMENT HISTORY

Teknisa	Belo Horizonte, Brazil
Junior Dev	2021 – 2023

- Involvement in development team management
- Participation in the implementation of payroll and employee time tracking systems
- Vue, Angular, PHP, and Oracle

Teknisa	Belo Horizonte
Trainee Dev	2020 – 2021

- Creation and maintenance of payroll and employee time tracking systems of internal employees
- Participation in the implementation of these systems for external clients
- Vue, Angular, PHP and Oracle

Teknisa	Belo Horizonte, Brazil
Programming Internship	2019 – 2020

- Direct involvement in the development of corporate legacy systems
- Vue, Angular, PHP and Oracle

INTERESTS

DATA
Data Science
Transformers
Machine Learning
Scikit-learn
LookerStudio
Seaborn
SQL
TensorFlow

DEVOPS
Linux
Bash scrips
Docker
Kubernetes
Cloud
Ansible
CI/CD
Git

PERSONAL PROJECTS

Restaurant Integration API Project
App 2024

- REST API responsible for controlling the storage and retrieval of restaurant information. This API aims to centralize information related to restaurant orders in one place, providing webhooks so that other systems can make decisions based on order activity. Koyeb is used as the production platform for the API and for the database. The database used is a PostgreSQL instance, also hosted on Koyeb. A migration structure has been implemented to control the versions of the entities.
- Python, flask, REST API, GitHub, Microservices, SQLAlchemy
- github.com/restaurant-api

Traffic Accident Analysis in Minas Gerais Project
Data Analysis 2024

- Data analysis on traffic accidents that occurred in the state of "Minas Gerais", Brazil. The data source is located on Portal de Dados Abertos do Estado de Minas Gerais website. The data collected spans from 2010 to 2024. City locations were obtained from the geoinfo GitHub repository. Other data source used was Dados abertos da Policia Rodoviaria Federal. The purpose of this study is to provide insights for future improvements to traffic legislation, in order to make it safer.
- Python, pandas, Matplotlib, Data Analysis, Data Science, Tableau
- Traffic Accident Analysis on Federal Highways in Minas Gerais (Public Tableau)
- Fatal Traffic Accident Analysis in Minas Gerais (Public Tableau)
- github.com/traffic-accidents-analysis-mg

Sentiment Analysis in Portuguese Sentences Project
App 2024

- This project aims at analyzing and predicting sentiments associated with texts written in the Portuguese language through NLP. This initiative takes into account the absence of similar tools in this language, as much of the research and applications focus on the English language. Technically, it is an API that returns a sentiment analysis related to certain inputs. To do this, pretrained models and tools for working with tasks related to natural language processing are used.
- Python, TensorFlow, Transformers, Flask, NLP
- github.com/sentiment-analysis-pt

Clocked
App

Project

2024

- Microservices-oriented WEB application aimed at facilitating the calculation of hours worked by employees in the business environment. In its latest version, it features a user interface built with Vue.js and a Java backend, using the Spring Boot framework. Each of the mentioned components has its own repository and CI/CD automations, available on GitHub
- Java, API REST, Spring Boot, JUnit, Microservices
- github.com/clocked-app
- Tableau presentation

Academic Success
Data Analysis

Project

2024

- A study conducted to analyze possible causes of school dropout rates in elementary education in Brazil. Data from the National Institute for Educational Studies and Research (INEP) regarding students' approval and failure rates across the country were gathered, and a Business Intelligence (BI) report was generated to display the distribution of the highest rates based on different locations, with varying levels of visualization.
- BI, Análise de Dados, Google Big Query
- BI Report built with BigQuery

Doar Digital API
App

Project

2023

- REST API responsible for managing information on donations of digital equipment. Through it, it's possible to register equipment for collection and list donations made. It was created with the context of the need for integration between PUC-MG and the Beira Linha project. This API was built using NodeJS and Koa.js. The application expects a PostgreSQL database
- Node, Koa.js, PostgreSQL, REST API
- github.com/doardigital/api

SPECIALIZATIONS

Mathematics for Machine Learning and Data Science   DeepLearning.AI
Specialization   2024

- Professional specialization aiming to study the analytical optimization of different types of functions commonly used in machine learning using properties of derivatives and gradients. Other several topics covered are:
  - Use of gradient descent in neural networks with different activation and cost functions
  - Visual and intuitive understandment of the properties of commonly used probability distributions in machine learning and data science
  - Performance assessment of machine learning models using interval estimates and margin of errors
- Calculus, Linear Algebra, Probability and Statistics, Linear Equations, Function Optimizations, Derivatives and Gradients, Probability Distributions, Python, Data Science, Exploratory Data Analysis (EDA), Machine Learning Models

IBM Data Science   IBM
Specialization   2024

- In this Professional Certificate, learners developed and honed handson skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.
- Python, SQL, scikit-learn, Matplotlib, Plotly, Seaborn, Data Science, Exploratory Data Analysis (EDA), Machine Learning Models

Google Advanced Data Analytics   Google
Specialization   2024

- "Those who earn the Google Advanced Data Analytics Certificate have completed seven courses that include hands-on, practice-based assessments and are designed to prepare them for advanced roles in data analytics and entry-level roles in data science. They are competent in exploring large datasets, applying data analysis techniques, and building models to extract insights. They are also competent in machine learning, predictive modeling, and statistics."
- Python, Data Analysis, Data Science, Exploratory Data Analysis (EDA), Machine Learning Models, Tableau, Linear and Logistic Regression Models, Statistical hypothesis test, Decision Tree

DevOps and Software Engineering IBM

Especialização 2024

- In this Professional Certificate, learners developed essential knowledge and skills to perform the many tasks in an entry-level DevOps practitioner role. By completing over a dozen courses and projects in the program, the earner of this Professional Certificate has demonstrated a firm grasp and practical experience to:

  - Adopt a DevOps mindset in Software Engineering using Agile and Scrum methodologies and Cloud Native tools and technologies

  - Automate tasks using Shell scripts

  - Use collaborative coding platforms like GitHub

  - Compose applications using Microservices

  - Deploy them using Containers (Docker/Kubernetes/OpenShift) & Serverless technologies

  - Employ tools for Automation, Continuous Integration (CI) and Continuous Development (CD).

- DevOps, DevSecOps, GitOps, Cloud, Docker, Kubernetes, OpenShift, Software Engineering, Python, Jenkins, CI/CD, Microsservices, Shell, Prometheus, Grafana

COURSES

Python for Data Science, AI & Development   IBM
Course   2024

- Python for Data Science and Software Development; Logic Variables, Data Structures, Branching, Loops, Functions, Objects & Classes; Python libraries such as Pandas & Numpy; Webscraping with Beautiful Soup
- Python, Data Science, Data Analysis, Numpy, Pandas

Go Beyond the Numbers: Translate Data into Insights   Google
Course   2024

- Leveraging the power of Exploratory Data Analysis (EDA) to unlock hidden patterns and trends within your raw dataUsing the versatility of Python to delve into your unprocessed data, identifying potential issues and preparing it for analysis; Benefits of structuring and cleaning data, ensuring the foundation for accurate and insightful analysis; Creation of compelling data visualizations using Tableau
- Python, Data Science, Data Analysis, Numpy, Pandas

Operations with AWS - Level 3   Cloud Academy
Course   2024

- Application source control, CI/CD, deployment pipeline and deployment rollbacks using AWS tools
- AWS CodeCommit, AWS CodeBuild, AWS CodePipeline, AWS CodeDeploy, AWS EC2

Developing AI Applications with Python and Flask   IBM
Course   2023

- Steps and processes involved in creating a Python application including the application development lifecycle; Python modules, Unit tests, and package applications while ensuring the PEP8 coding best practices; Deploy of an AI-based application onto a web server using IBM Watson AI Libraries and Flask
- Python, Flask, AI, CI

Application Development using Microservices and Serverless   IBM
Course   2023

- Microservices versus monolithic architecture; Creation and deploy of microservices; API documentation
- Microservices, IBM Cloud, Docker, AWS Lambda, Serverless

Continuous Integration and Continuous Delivery (CI/CD)   IBM
Course   2023

- CI/CD overview; Integration and delivery automation pipelines; Local and cloud tools for automation; Describing and storing infrastructure as code
- Kubernetes, Jenkins, OpenShift, Continuous Integration (CI), Continuous Delivery (CD), GitOps, DevOps, Docker, Infrastructure as Code (IaC), GitHub, Tekton

Application Security for Developers and DevOps Professionals   IBM
Course   2023

- Development of applications using security by design principles; perform defensive coding following OWASP principles; Golden Signals; Tools for monitoring and troubleshooting; and test monitoring in action with Prometheus and Grafana
- Prometheus, Grafana, DevSecOps, SonarQube, OpenSSL, OWASP ZAP

Monitoring and Observability for Development and DevOps   IBM
Course   2023

- Logging with telemetry using OpenTelemetry and tracing using Kubernetes; Pillars of observability, cloud native observability, and types of sampling
- Instana, Prometheus, Grafana, CloudVyzor, Mezmo, OpenTelemetry, Kubernetes

Building and Deploying a Cloud Native Application   Cloud Academy
Course   2024

- Implementation and deployment of a cloud native application using DevOps concepts and best practices. A front-end based in React and a back-end written in Go, using Gorilla Mux, were developed and deployed using Kubernetes and AWS EC2. Cilium CNI was used to establish network security policies
- Docker, Kubernetes, DevOps, AWS EC2, Cilium CNI, Nginx Ingress Controller, Microservices

DevSecOps - Build and Release Secure Software Faster   Cloud Academy
Course   2024

- Creating a stable and secure pipeline for application development, testing, and deployment. Using Kubernetes clusters and Kubernetes network plugins such as Istio and Cilium CNI to deploy container-based applications, following Kubernetes patterns. Protecting software against vulnerabilities with Gauntlt and OWASP principles. Establishing a continuous monitoring environment using Kubernetes Dashboard, Prometheus, and Grafana
- DevOps, DevSecOps, Docker, Kubernetes, Helm, Microservices, Prometheus, Grafana

Combining DevOps Tools at Scale

Course

Cloud Academy

2024

- Crafting a Jenkins CI/CD pipeline leveraging containerization, static code analysis, artifactory integration and application monitoring. An AWS infrastructure was provisioned to develop the components
- Jenkins, Jenkins Plugins and Tools, Docker, Continuous Integration (CI), Continuous Delivery (CD), SonarQube, Splunk, Jira, JFrog Artifactory

DevOps Capstone Project

Course

IBM

2024

- Understandment DevOps culture and Agile development practices; User requirements, user stories, creation and execution of sprint plans; Execution of test cases and during various stages of its lifecycle; CI/CD tools to update and deploy; Development of an application composed of several microservices and employ containers and serverless for running apps in Cloud
- DevOps, Agile, Microservices, Kubernetes, OpenShift, Test Driven Development, Docker, GitHub

Introduction to Containers w/ Docker, Kubernetes & OpenShift

Course

IBM

2024

- Set up of an entire lifecycle-based container management system using kubernetes and containers; Development of cloud native applications; Configuration of resources such as pods, services, replicasets, and others in a declarative way via YAML files
- Docker, Kubernetes, OpenShift, Istio

Introduction to Test and Behavior Driven Development

Course

IBM

2024

- Importance of testing; Unit tests with test assertions and test fixtures; Unit testing through advanced TDD methods including coverage reports, factories, fakes, and mock objects; BDD scenarios using Gherkin syntax
- TDD, BDD, Python, Nose, Test Coverage, Mocking, Behave, Selenium

Hands-on Introduction to Linux Commands and Shell Scripting

Course

IBM

2023

- Linux architecture and common Linux distributions; Update and install software on a Linux system; Development of shell scripts using Linux commands, environment variables, pipes, and filters; Common informational, file, content, navigational, compression, and networking commands in Bash shell
- Bash, Linux, Shell Scripts

DevOps Fundamentals   Cloud Academy
Course   2023

- Basic DevOps Concepts and responsabilitities
- Amazon AWS, Terraform, Jira

Introduction to DevOps   IBM
Course   2023

- DevOps Concepts
- Agile, Continuous Integration (CI), Continuous Delivery (CD), Test Driven Development (TDD)

UNICEF SAMSUNG   São Paulo, Brazil
Hackaton   2018

- Organized by SOFTEX (Associação para Promoção da Excelência do Software Brazileiro)
- Partnership with UNICEF and SAMSUNG.

Converge   Belo Horizonte, Brazil
Internship   2018

- Web Developer
- Angular 6, ASP.NET CORE, SQL SERVER EXPRESS 2014, Visual Studio 2017

IX FÓRUM REGIONAL   Belo Horizonte, Brazil
Forum   2018

- Event that encouraged dialogue about Internet exchange points