Gerson Santos

Data Scientist | Software Developer

Proficient in **Python/Machine Learning based micro services development** and an ability to **translate business requirements into technical solutions**. I have a passion for **consistent learning and innovating**.

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WORK EXPERIENCE

Data Scientist at CESAR

Centro de Estudos e Sistemas Avançados do Recife

02/2020 - Present, *Remote*

Achievements/Tasks, *Recife, Pernambuco, Brazil*

- Working in an R&D team focused research in the field of Software Engineering, Data Science and AI developing solutions to solve a variety of problems for a global client;

- Responsible for developing microservices in Python involving pipelines, data streaming (Spark), messaging systems (Kafka, RabbitMQ) with technologies such as Docker, Kubernetes, Helm Chart, REST API, gRPC, MongoDB, SQL, OracleDB, CI/CD

- Planned, trained, evaluated, deployed, and maintained Machine learning/Deep learning models using tools/frameworks such as PyTorch, Scikit-Learn, Feast, Apache Airflow, MLflow, Pandas, Numpy;

- Planned and translated client requirements into application designs and requirements.

- Worked with Agile methods like Kanban and Scrum.

Contact : contato@cesar.org.br

Substitute Professor at UFRPE

Universidade Federal Rural de Pernambuco

03/2016 - 02/2017, *On-site*

Achievements/Tasks, *Serra Talhada, Pernambuco, Brazil*

- Taught various courses in the "Sistemas de Informação" (Information Systems) program, including Instrumentation for Teaching, Programming Laboratory, and Algorithms and Data Structures.

- Developed and implemented interactive learning methodologies to enhance student engagement and comprehension.

- Mentored and guided students in academic projects, fostering critical thinking and problem-solving skills.

Substitute Professor at IFPB

Instituto Federal da Paraíba

05/2017 - 04/2018, *On-site*

Achievements/Tasks, *Moteiro, Paraíba, Brazil*

- Conducted lectures and practical sessions in various courses, including Administration of Proprietary and Open Operating Systems, Introduction to Programming and Project Management.

- Developed and delivered engaging teaching materials, integrating innovative tools like Scratch, AppInventor, and unplugged activities to enhance student learning experiences.

- Evaluated student performance and provided valuable feedback to support their academic progress and foster continuous improvement.

EDUCATION

Bachelor's, Information Systems

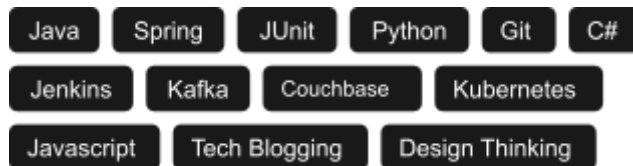Universidade Federal Rural de Pernambuco

03/2010 - 12/2015, *80.5%*

Master's, Applied Informatics

Universidade Federal Rural de Pernambuco

03/2018 - 02/2020, *Highest Distinction - 100%*

SKILLS

Java · Spring · JUnit · Python · Git · C#
Jenkins · Kafka · Couchbase · Kubernetes
Javascript · Tech Blogging · Design Thinking

PERSONAL PROJECTS

Gravitational Wave Detection using Artificial Neural Networks (02/2019 - 02/2020) ↗

- Developed a computational procedure based on Artificial Neural Networks (ANN) to detect black hole-black hole gravitational wave events from LIGO data.

- Achieved accurate identification with a high-score system indicating gravitational wave observation and low values indicating noise.

- Received top marks and earned maximum score during the thesis defense presentation for my Master's project, demonstrating the efficacy and significance of the ANN-based approach in detecting gravitational wave signals.

- Presented research findings in an article showcasing the effectiveness of the ANN-based approach in detecting gravitational wave signals.

Data Orchestration and DataOps Engineering Template (03/2023 - Present) ↗

- Developed an open-source repository and project providing a comprehensive framework and a suite of tools for Data Orchestration and DataOps.

- Designed to simplify the end-to-end management of data workflows, the project includes tools capable of performing data extraction, transformation, and loading (ETL), data validation, and monitoring.

- Aimed at streamlining data operations and enhancing data reliability, the template facilitates seamless orchestration of data pipelines, ensuring efficient data flow and timely processing.

- Committed to fostering a collaborative and thriving data community, the project embraces open-source principles, enabling data engineers to leverage the template for diverse data-driven projects with ease.