João Pedro da Silva Oliveira

Data Scientist & Backend Developer

Back-End developer with solid experience in Node.js, MongoDB and agile methodologies, currently transitioning to the data area. I have advanced skills in data analysis and machine learning, with proven leadership and teamwork skills.

PROFESSIONAL EXPERIENCE

Ágora — March 2023 - Current

Mid-level Back-End Developer

- **Leadership of the back-end team:** agile task management (Scrum), ensuring good communication with the Front-End.
- **Owner of NoSQL databases (MongoDB):** responsible for creating and managing NoSQL databases (MongoDB).
- **Mongoose:** use of the ODM library to connect to the database, create schema and data modeling; query performance monitoring and backup management.
- **Data analysis:** to trace user retention analysis, profiling behavior and general user data; participation in meetings with the board to determine the next features to be launched.
- **Routes, controllers and endpoints:** development and maintenance in Node.js and Express.js.
- **MSC architecture deployment:** Leadership in refactoring the application to follow the Model-Service-Controller architecture.
- Creation of integration tests with Mocha, Chai and Sinon.
- Use of Docker to create and feed containers simulating the MongoDB database.
- API documentation using Swagger.
- Code deployment on AWS.
- Creation, organization of the GitHub repository and control of permissions

Junior Back-End Developer — Janeiro 2022 - Março 2023

- Application development from scratch.
- Creation and configuration of NoSQL MongoDB with schemas and models.
- Development of routes, controllers and endpoints using Node.js and Express.js, and carrying out tests with Postman.
- Creation and integration of middleware.
- Constant contact with the Front-End to ensure efficient integrations

Laboratório de Dosimetria da Radiação — 2021 - 2022

Researcher (Scientific Initiation)

- Development of materials radiologically equivalent to breast tissue.
- Preparation of reports based on data modeled in Python.

ACADEMIC EDUCATION

Universidade de São Paulo — 2019 - 2023

Bachelor of Physics

- Took four Experimental Physics subjects, in which data collection, analysis and modeling were essential for generating results.
- Took courses focusing on Python, using programming to perform calculations and mathematical approximations of physical interest.
- Learned statistical methods for data analysis, such as statistical metrics, hypothesis testing, and statistical distributions.

CONTACT INFORMATION

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SKILL

Database management
Data analysis and visualization
Back-End Development
Process automation
APIs RESTful
Agile Methodologies (Scrum)
Middleware Integration
Integration and unit tests
Software design and architecture
Agile team leadership

CERTIFICATIONS

University of Michigan

Applied Machine Learning in Python

Applied Plotting, Charting and Data Representation in Python

Introduction to Data Science in Python

Introduction to Structured Query Language (SQL)

Udemy

Python Programming: From Basic to Advanced

Shell Script Programming: automating routines in Linux

Power BI C

Machine Learning and Data Science with Python

KNOWLEDGE

Database ● ● ● ●
NoSQL, MongoDB, PowerBI

Languages ● ● ● ●
Python, JavaScript, C#, Shell, SQL

Frameworks & Librarys ● ● ● ●
Node.js, Express.js, Mongoose, Mocha, Chai e Sinon

English(Advanced) ● ● ● ○