PEREIRA MATEUS

Software & Data Engineer

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EXPERIENCE

Software & Data Engineer

VE3 - Software and Consulting for Supply Chain

📅 08/2022 - Present   📍 Porto Alegre, Brazil

- Designed daily/weekly DRP/MRP analytics using Python + Polars, supporting a multi-billion-revenue client
- Refactored the Forecasting Engine (Python + Spark), improving reliability and simplifying workflows for 25+ models
- Developed the Sell-Out MPS microservice (Go + Python + React)
- Integrated Embedded BI for in-platform analytics
- Re-engineered pricing hierarchy logic, reducing cloud footprint by up to 10%
- Optimized SQL and ERD structures, achieving 75% faster dashboards and 50× lower query load
- Built monitoring stack with Prometheus, Grafana, and Bash

Web Developer

Self Employed

📅 02/2021 - 08/2022   📍 Remote

- Built responsive websites and landing pages (HTML, CSS, JavaScript, PHP)
- Improved user satisfaction by translating business requirements into clean, intuitive interfaces
- Developed Python automations to streamline client workflows

EDUCATION

B.Sc. in Computer Science

Estácio de Sá University

📅 2022 - Present   📍 Rio de Janeiro, Brazil

SELECTED PROJECT

Bitcoin Price Forecasting

📅 2025   📍 Remote

Machine learning pipeline forecasting Bitcoin daily: auto data ingestion, feature engineering, rolling predictions, Parquet storage, XGBoost/SARIMAX models, FastAPI service, and Streamlit dashboard for monitoring.

- Achieved 1% MAPE on the predictions
- Deployed on minimal free tier machine (0.1 CPU and 512mb RAM)

STRENGTHS

💡 **Business-Oriented Problem Solving**

Strong ability to deeply understand business contexts and convert real-world needs into clear, effective software solutions, combined with high empathy and excellent communication with diverse stakeholders and clients, from technical teams to senior leadership in large, global organizations.

⚙️ **Outcome-Driven Systems Design**

Ability to design and evolve complex systems with a strong focus on measurable impact, balancing performance, scalability, cost, and maintainability. Experienced in making pragmatic technical decisions under real operational constraints, aligning architecture, data, and automation to deliver reliable results in high-stakes, large-scale environments.

SUMMARY

Senior Software & Data Engineer focused on high-performance backend systems and large-scale data pipelines. I deliver reliable, measurable, and production-ready solutions for complex operational environments. Strong in architecture, code quality, and translating business constraints into scalable systems. Pragmatic, fast to execute, and fully outcome-driven.

LANGUAGES

English
Near-Native
●●●●●

Portuguese
Native
●●●●●

Spanish
Intermediate
●●○○○

MAIN SKILLS

Golang Python Typescript Bash

PostgreSQL SQL AWS GCP

Docker Microservices Fiber

Fast API Node.js Pandas Polars

Linux NGINX Kafka ETL ML

REST Git REST Kafka Pandas

Scikit-Learn XGBOOST Time Series

EC2 ECS S3 MinIO Redis

React.js Next.js Webpack

Prometheus Grafana Agile Scrum

FIND ME ONLINE

GitHub
https://github.com/tzpereira

🌐 **Website**
https://mateusdasilva.vercel.app/en

INTERESTS

🎯 **Machine Learning, Artificial Intelligence, Forecasting, High-Performance Systems, Software Architecture**