

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 50x 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 in 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
REST	Git	REST	Kafka
Scikit-Learn	XGBOOST	Time Series	
EC2	ECS	S3	MinIO
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