

PEREIRA MATEUS

Software & Data Engineer

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EXPERIENCE

Software & Data Engineer

VE3 - Enterprise Data Platform (B2B SaaS)

📅 08/2022 - Present 🌐 Porto Alegre, Brazil

- Designed and delivered **large-scale analytics systems** in Python (Polars), enabling **enterprise-critical decision making at scale**
- Architected and owned **distributed backend services** (Go, Python, Node.js) supporting **high-volume, multi-tenant workloads**
- Scaled a **production ML-driven engine** to 25+ models, processing **millions of records per day** with improved reliability
- Re-architected data models and SQL pipelines, achieving **75% faster dashboards** and **50x lower query load**
- Reduced cloud infrastructure footprint by **~10% per client** through smarter configuration and resource optimization
- Implemented **end-to-end observability** (Prometheus, Grafana, Bash), significantly improving uptime and incident response
- Integrated **advanced embedded analytics** directly into the product, increasing data accessibility for end users

Web Developer

Self Employed

📅 02/2021 - 08/2022 🌐 Remote

- Delivered **production-ready web applications and landing pages** using HTML, CSS, JavaScript and PHP
- Built **Python automation scripts** to streamline client workflows, reducing manual effort and operational friction

EDUCATION

B.Sc. in Computer Science

Estácio de Sá University

📅 2022 - Present 🌐 Rio de Janeiro, Brazil

SELECTED PROJECT

Bitcoin Forecasting Platform (ML & Data Engineering Project)

📅 2025 🌐 Remote

End-to-end system for automated daily time-series forecasting under strict infrastructure constraints.

- Built an automated ML pipeline (ingestion, feature engineering, rolling predictions, retraining)
- Achieved **~1% MAPE** using XGBoost and SARIMAX models
- Optimized storage and compute (Parquet) to run on **0.1 CPU / 512 MB 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 specialized in **high-performance backend systems** and **large-scale data platforms**. I design and deliver **production-grade, measurable solutions** for complex environments, bridging business constraints and scalable architecture. Strong focus on **code quality, reliability, and execution speed**, with an outcome-driven mindset.

LANGUAGES

English

Near-Native



Portuguese

Native



MAIN SKILLS

Golang	Python	TypeScript	Bash
PostgreSQL	SQL	AWS	GCP
Docker	Microservices	Fiber	
Fast API	Node.js	Pandas	Polars
Linux	NGINX	CI/CD	Kafka
ML	REST	Git	REST
Pandas	NumPy	Scikit-learn	
XGBOOST	Time Series	EC2	ECS
S3	MinIO	Redis	React.js
Next.js	Webpack	Prometheus	
Testing	Grafana	Agile	Scrum

FIND ME ONLINE

GitHub

<https://github.com/tzpereira>

Website

<https://mateusdasilva.vercel.app/en>

INTERESTS

Machine Learning · Artificial Intelligence · Forecasting · Distributed Systems · High-Performance Systems · Software Architecture