Mateus Pereira da Silva

Full Stack Software Engineer | Open to remote or relocation
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Professional Summary

Full Stack Engineer with 4+ years of experience building scalable, cloud-native systems and data-driven applications. Skilled in microservices, distributed systems, and machine learning pipelines. Proven track record of reducing system bottlenecks by 60%, optimizing SQL queries 50x, and delivering tools that drive multi-billion-dollar decisions in supply chain planning.

Professional Experience

Software Engineer

VE3 – B2B Supply Chain & Data Intelligence Platform
Aug 2022 – Present

- Designed and deployed a microservice for strategic planning (Sell-Out MPS) with Go REST API, Python (EC2), and React dashboards, improving planning accuracy and decision making.
- Developed a daily DRP dashboard (Python + Polars) that directly impressed and helped secure a multi-billion-dollar annual revenue client.
- Refactored a machine learning based Sales Forecasting Engine (Python + Spark), adding new input types and reducing technical debt. Daily forecasts run across 25+ models and hundreds of thousands of records.
- Tuned SQL execution plans and ERDs, boosting dashboard performance by 60% and cutting query load by 50x.
- Implemented Prometheus and Grafana monitoring, reducing downtime with faster incident detection.

Frontend Developer (Freelance)

Self-Employed | Remote
Feb 2021 – Aug 2022

- Built responsive websites and landing pages with HTML, CSS, JavaScript, with strong client communication.

Selected Project

Bitcoin Price Forecasting (2025)

GitHub: https://github.com/tzpereira/bitcoin-price-forecasting

A robust pipeline for Bitcoin price forecasting using Machine Learning models (XGBoost and Linear Regression) with advanced feature engineering and a Polars/Numpy data pipeline.

Main dependencies: Polars, Numpy, Scikit-learn, XGBoost, Streamlit, Plotly, Pytest, Kagglehub.

Technical Skills

- Languages: Python, Go, JavaScript, TypeScript, Node.js, PHP
- Frontend: React, Next.js, HTML5, CSS3
- Backend: REST APIs, Microservices, Asynchronous Processing
- Data & Machine Learning: PostgreSQL, MySQL, Polars, Pandas, Forecasting Models
- DevOps: Docker, AWS (EC2, S3), Linux, Prometheus, Grafana, Bash, NGINX, CI/CD
- Tools: Git, Postman, Swagger, Webpack, Composer
- Methodologies: Agile, Scrum, Cross-functional Collaboration

Education

B.Sc. in Computer Science (Expected 2026)
Estácio de Sá University – Remote

Languages

- Portuguese: Native
- English: Fluent
- Spanish: Beginner