

# Matthew Araujo

Contact: matthewaraujo.dev@gmail.com | +55 21976556969 | Rio de Janeiro, Brasil

Profile: [linkedin.com/in/matthewaraujo](https://www.linkedin.com/in/matthewaraujo) | [github.com/MatthewAraujo](https://github.com/MatthewAraujo)

## Summary of Qualifications

Full Stack / Software Engineer with 4+ years building scalable backend systems, microservices and data-intensive platforms using Node.js, Golang, React and PostgreSQL. Experience in distributed systems, cloud infrastructure, performance optimization and financial systems.

## Experience

### • Software Engineer at SMTR : Apr/2025 - Present

In my role as Full Stack Developer focused on financial and payment systems, I led the design and implementation of critical backend and data-intensive solutions, driving performance improvements, automation, and system reliability.

- **Financial Reporting Automation:** Automated the generation of financial reports, eliminating manual SQL extraction and frontend processing, significantly improving productivity and reducing operational effort. Led query optimization and database refactoring to improve scalability and report performance.
- **Administrative and Payment Systems:** Developed secure role-based administrative interfaces using React and NestJS, and contributed to payment processing enhancements, including retry mechanisms for failed transactions integrated with Caixa Econômica Federal services.
- **Data Integrity and Modernization:** Implemented data validation and auditing pipelines using SQL and Node.js to ensure consistency with official financial records. Led migration from a legacy database architecture to a modernized data model, improving maintainability and scalability.
- **Backend Engineering and Performance:** Redesigned backend endpoints applying SOLID principles and SRP, improving code maintainability and reliability, while optimizing critical financial queries and services for high-volume processing.

**Tech Stack:** Node.js, NestJS, React, JavaScript/TypeScript, PostgreSQL, PL/pgSQL, Docker, Microservices, REST APIs, CI/CD, Git, Google Cloud Platform (GCP).

### Software Engineer at GeoTech: Set/2025 - Nov/2025

Led the design and development of an end-to-end platform for ingesting, processing, and visualizing inclinometer data, owning the application architecture from backend services to user-facing interfaces.

- **Data Processing Platform:** Designed and implemented core services for handling ingestion and processing workflows, supporting multiple file formats and enabling scalable analysis and visualization of engineering data.
- **Integrations and Cloud Infrastructure:** Implemented service integrations and contributed to cloud deployment architecture, delivering support for automated workflows and detailed report generation across the platform.
- **Performance and Reliability:** Conducted testing, debugging, and performance optimizations, improving system efficiency, reliability, and scalability for data-intensive workloads.
- **Full-Stack Architecture:** Contributed across backend, frontend, and infrastructure layers, helping shape a maintainable and robust platform architecture.

**Tech Stack:** Golang, Svelte, PostgreSQL, SST, Git, REST APIs, Cloud Infrastructure.

### • Junior Software Engineer at ED: Jul/2024 - Apr/2025

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Contributed to the development of digital products and automation solutions across insurance, enterprise productivity, and large-scale consumer platforms, delivering impactful features focused on user experience, integration, and efficiency.

- **AI and Automation Solutions:** Developed a chatbot feature in Flutter for one of Brazil's largest insurance companies, enabling customers to access payment information and tax reports through self-service channels. Built a Microsoft Teams assistant using the OpenAI API, driving a 36% increase in brokers' efficiency through intelligent automation.
- **Product Development:** Implemented new features for one of Latin America's largest music library platforms using React.js and Java, contributing to scalable user-facing applications and platform evolution.
- **Platform Engineering and Developer Productivity:** Refactored the environment variable management system to persist configurations in the database, resolving cross-team compatibility issues and improving developer productivity.
- **Identity and Integrations:** Built a custom Single Sign-On (SSO) plugin for NocoBase using Node.js and React, integrating authentication with Azure AD and implementing role management based on Microsoft Teams.

**Tech Stack:** Node.js, React.js, Java, .NET, Flutter, N8N, NocoBase, OpenAI API, Azure AD, REST APIs.

- **Intern Data Science at IPNET : Dez/2023 - Jul/2024**

Contributed to the development of AI-driven and cloud-based solutions focused on information retrieval, automation, and scalable infrastructure, delivering impact across search, productivity, and cloud adoption initiatives.

- **AI and Information Retrieval:** Developed a document similarity system using Python, vector databases, and embeddings, optimizing document search, creation, and analysis workflows, and solving a long-standing business pain point through semantic search and intelligent retrieval.
- **Cloud Infrastructure and Deployment:** Actively contributed to application deployment on Google Cloud Platform (GCP), working with Virtual Machines and Google Cloud SQL to support scalable and reliable cloud infrastructure.
- **AI-Powered Automation:** Built automation solutions using Vertex AI's TextTranslate API to translate certification simulation exams, supporting learning initiatives for Google Cloud certifications including Digital Leader, Professional Cloud Architect, and Associate Cloud Engineer.

**Tech Stack:** Python, GCP, Vertex AI, Vector Databases, Embeddings, Google Cloud SQL, Virtual Machines, AI/ML APIs.

## Education

- **MSc in Computer Science:** University Federal Fluminense (Brazil). Dez/2027 (2 years).
  - **BSc of Information Systems:** University of La Salle (Brazil). Ago/2025 (4 years).
  - **Languages:** Portuguese, Spanish and English
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