

# Matheus M. Alfradique

Data Analyst & Computer Science Undergraduate / São Paulo, Brazil / [matheus.alfradique@usp.br](mailto:matheus.alfradique@usp.br) / +55 31 99867-7948 / [linkedin](#)

Seeking full-time software development opportunities to build deep technical expertise toward becoming a solutions/software architect. I excel at analytical problem-solving and process optimization, driven by continuous improvement and creating better environments for teams to work with.

---

## Experience

### **Data Analyst** Itaú / Internship / São Paulo, Brazil / January 2025 – Present / 9 months

- **Process Optimization:** Decommissioned 7 out of 60 daily SQL/SAS routines through automation and process redesign, reducing manual workload by 30 minutes per day for mid-level analysts and improving operational efficiency.
- **Financial Impact Analysis:** Identified critical data inconsistencies revealing a gap in contractual fee payments worth R\$500,000 monthly, demonstrating strong analytical skills.
- **AWS Data Pipeline Development:** Designed and implemented an automated classification system using AWS Athena, Glue, and Step Functions to categorize payment gaps by reason, transforming ad-hoc manual analysis into systematic, actionable insights for business decision-making.
- **Data Integration Architecture:** Developed a standardized ETL pipeline for seamless data movement from SharePoint files (CSV/XLSX) and legacy MS SQL Servers to AWS Athena using Glue/PySpark, achieving 42% cost reduction and 80% time savings for analysts.
- **Code Quality & Scalability:** Established reusable, team-specific components, eliminating code duplication and enabling rapid feature implementation without legacy code refactoring.

### **Algebra and Geometry Teacher** CPE / Volunteer / São Paulo, Brazil / February 2024 – Present / 21 months

Teach Geometry (2024) and Algebra (2025) at Cursinho Popular EACH USP - university entrance exam preparation course. Manage four weekly classes with 40+ students each tailored for ENEM and college entrance exam requirements.

---

## Projects

### **GlueLess** Low-code Python library for seamless data integration between file sources, MS SQL Server, and AWS Glue / In expansion

- Designed and developed a standardized library that simplifies data movement from local files, SharePoint repositories, and legacy MS SQL Server databases to AWS data catalog infrastructure.
- Reduced processing costs by 42% through optimized data transfer workflows and efficient resource utilization.
- Created an intuitive low-code interface requiring only metadata configuration (JSON) and a single method call, eliminating the need for specialized Python knowledge among business analysts.
- Consolidated 30+ disparate data movement scripts into a unified, maintainable solution, reducing code duplication and technical debt.
- Enhanced team productivity by abstracting complex AWS Glue operations behind user-friendly abstractions while maintaining full configurability for advanced use cases.

### **Bullet Hell** Refactoring of a simple procedural Shoot'em Up game to object-oriented programming / Completed

### **Academic Management System** Web platform for attendance control, academic performance tracking and low engagement alerts for EACH USP's prep course students / In progress

---

## Skills

**Programming Languages:** Python: Intermediate (+1 year); Java: Intermediate; C: Intermediate; AWS Services: Glue, Athena, Step Functions, S3 (<1 year); SQL: intermediate (<1 year); **Tools:** Git, VS Code, Jupyter Notebooks

**Current focus:** Developing a deep understanding of Python data structures to leverage Python's high-level abstractions and readability while preserving the performance efficiency of underlying C implementations.

---

## Education

### **Bachelor of Science in Computer Science - Sistemas de Informação**

Top3 Latam best universities /University of São Paulo / EACH USP / 2024 – 2027

**Proficiency:** English: Fluent; Portuguese: Native; Japanese: Beginner.

---

## Interests

Pottery | Piano | Hiking -- quite rare nowadays in the city | Discovering coffee shops -- quite regular nowadays | Collecting plants | Teaching