

# 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 opportunities to build deep technical expertise toward becoming a cloud solutions architect. Driven by curiosity and continuous improvement, I naturally gravitate toward complex challenges—finding that lasting results are built upon strong teams and culture.

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## Experience

### **Data Analyst** Itaú / Internship / São Paulo, Brazil / January 2025 – Present / 11 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.
- **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:** Transformed fragmented and manual data movement challenges into an opportunity for impact by developing a standardized ETL pipeline (GlueLess) for seamless transfer 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 / 23 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.

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## Projects

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

- Conceived, designed, and built GlueLess end-to-end as a solo project.
- Leveraged AWS cloud infrastructure to streamline and automate data movement from legacy systems to AWS, significantly simplifying workflows for clients and data analysts.
- Empowered users with a user-friendly interface, eliminating the need for specialized Python knowledge and reducing onboarding time.
- Reduced processing costs by 42% through optimized data transfer workflows and efficient resource utilization.
- 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

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## Skills

**Programming Languages:** Python: Intermediate (+1 year); Java: Intermediate; SQL: intermediate (1 year); C: Intermediate; **Cloud:** AWS Services (1 year);

**Tools:** Git, VS Code, Jupyter Notebooks

**Current focusing on** deepening my understanding of cloud services and infrastructures.

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## Education

### **Bachelor of Electrical Engineering** Interrupted / Top3 Latam best universities /University of São Paulo / EESC USP / 2014 – 2018

### **Bachelor of Science in Computer Science** Ongoing / Top3 Latam best universities /University of São Paulo / EACH USP / 2024 – 2027

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

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## Interests

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