

Marcello Samiandrisoa

Full-Stack Engineer

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About

Analyzing risk, hunting down flaws, and understanding the deep structure of systems — that's the thread running through my career. After five years as an auditor, I chose to step through the looking glass and start building tomorrow's solutions instead.

Today, at the crossroads of Software Engineering and Data Engineering, I turn complex architectures into solutions that are concrete, smooth, and performant.

My main goal today is to take this journey international: I'm actively looking for academic opportunities, exciting research projects, and stimulating technical challenges abroad, in an industry setting.

Experience

Full-stack Engineer · Calyps

August 2025 — Present

- Backend: design and development of robust, secure REST APIs in Java (Spring Boot) for a web-based AI-powered tourist flow prediction platform.
- Frontend: development of interfaces using Angular (TypeScript), integration of complex interactive dashboards and fine-grained user access management.
- Data engineering: design and optimization of ETL pipelines under Airflow, automating the ingestion and normalization of 10+ data sources.
- AI & Modeling: optimization of predictive models and advanced architectures (Prophet, PyTorch, LLM/RAG).
- DevOps & Cloud: containerization (Docker), deployment on GCP, PostgreSQL database management and technical documentation.
- Tech Stack: Python, Java (Spring Boot), TypeScript (Angular), PostgreSQL, Airflow, Docker, GCP, Github.

Financial Auditor · Delta Audit et Associés

February 2019 — September 2022

- Financial Audit: verification of financial statements for clients across various sectors; identification of discrepancies and anomalies.
- Systems Control: assessment of the reliability and integrity of information systems supporting financial data of audited clients.
- Process Optimization: evaluation of internal processes and formulation of recommendations for improving controls.
- Reporting: production of synthetic audit reports and recommendations for client management.

Financial Auditor · EY Madagascar

April 2017 — July 2018

- Financial Control: verification of data and financial accounts as part of legal and contractual audit missions.
- Risk Management: assessment of operational and financial risks of audited clients.
- Systems Security: monitoring the security and integrity of financial information systems.
- Communication: presentation of audit results and findings to management.

Education

B.Sc. then Master's in Computer Science · ITUniversity Madagascar

2022 — present

Fullstack computer science track – bachelor's graduated in 2026, master's in progress. Proficient in Java, TypeScript, Spring Boot, Quarkus, and Angular. Experienced in web application development, REST API design, and microservices architecture.

Master's in Accounting, Control and Audit · INSCAE / IAE Poitiers

2012 — 2017

Advanced training in auditing, management control, and financial accounting. Skilled in financial analysis, account consolidation, budget management, and reporting. Delivered by INSCAE / IAE Poitiers.