

Marcelo Macambira Ferreira

Founder & CEO · Director, Software & Data Engineering
Adjunct Professor · Fort Lauderdale, FL

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Software and data engineering leader with 30+ years of experience, from state tax systems in Brazil to AI-native platforms on Google Cloud. Director of Software & Data Engineering at Cotality, leading 20+ engineers and contractors through AI-native, spec-driven modernization of core property-data systems. Founder of MacambaX.ai. Hands-on builder, two-time hackathon winner, Pinnacle Award recipient, and university educator for 12 years.

CORE SKILLS

AI	Agentic AI · Generative AI · Google ADK · AI SDLC (BMAD, Spec Kit) · Prompt engineering · Document AI
Cloud & data	Google Cloud (GCP) · GKE · Kafka · Temporal · PostgreSQL · SQL Server · SSIS · Mainframe migration
Engineering	Python · FastAPI · Angular · React · C# · Java · C++ · Natural/Adabas · API design
Leadership	Onshore/offshore teams (USA, India, Europe) · Vendor partnerships · Mentoring · 93–95% team engagement

EXPERIENCE

Founder & CEO · MacambaX AI LLC Present
Florida

- Founded an AI software company building practical, resilient applications for independent professionals.
- Building Caju™, a Progressive Web App for fitness instructors: class management, rosters, enrollment packages, and two-minute mobile attendance.

Director, Software & Data Engineering · Cotality (formerly CoreLogic) Sep 2020 – Present
Miami–Fort Lauderdale, FL

- Lead 20+ engineers and contractors, onshore and offshore, modernizing legacy systems with an AI-native, spec-driven approach and building greenfield cloud-native platforms on GCP.
- Technical lead for modernizing a 30-year-old platform that acquires and transforms property-tax data from about 22,000 tax agencies, redesigned around AI agents (Python, FastAPI, Kafka, Temporal, Google ADK, Angular, PostgreSQL).
- Rebuilt the customer-facing Fast Legal & Vesting website (C++/CGI, 2003) with one other developer using an AI SDLC (Spec Kit): Angular and FastAPI on GKE, new customer APIs, legacy site decommissioned.
- Invented Legal-X, GenAI that extracts legal descriptions, encumbrances, and buyer/seller vesting from recorded documents; now a production API in operational workflows (2025 Pinnacle Award nominee).
- Tech lead for moving core Property, Property Transaction, MLS, and Spatial applications from a data center to Google Cloud (2019–2024).
- Hackathons: team lead and winner in Operational Improvement (2024, 2025; APN Prime), finalist (2024); committee member representing the CTO and orientation speaker on AI and the AI SDLC (2025, 2026).
- Team engagement scores of 93% (Q2 2024) and 95% (Q4 2024), among the highest in the company.

Manager, Software & Data Engineering · CoreLogic Aug 2014 – Aug 2020
Miami–Fort Lauderdale, FL

- Led onshore and offshore engineering teams across the USA, India, and Europe delivering property-data systems.
- Began the move of core property-data applications to Google Cloud as tech lead (from 2019).

Senior Systems Analyst / Developer · CoreLogic

Sep 2010 – Jul 2014

Miami–Fort Lauderdale, FL

- Tech lead for migrating a large part of the core Property system off the IBM mainframe (Natural/Adabas) to SQL Server, SSIS, and C# (2010–2012).

Senior Systems Analyst / Developer · First American Real Estate Solutions

Sep 2002 – Jun 2010

Miami–Fort Lauderdale, FL

- Full life cycle of property processing, sales–transaction, auto–update, customer match & append, and Quantum Data Access (QDA) systems.

Senior Consultant · CGI

Jan 1998 – Sep 2002

Florida & Mississippi

- First American Real Estate Solutions (1998–2002): Data Express, Data Integration, and RIDE projects; led mainframe data–delivery enhancements.
- Y2K remediation for the Mississippi State Government (SCB Computer Technology) and American Community, Clearwater, FL (1998).

Systems Analyst / Programmer · SEFAZ–CE, Ceará State Finance & Taxation

Jun 1992 – Jan 1998

Fortaleza, Brazil

- Built critical state systems: Taxpayer Registry, Monthly Tax Collection Control, State Tax Collection, and Tax Delinquency Case Control. Also independent IS consultant for retail and finance clients (1996–1997).

TEACHING**Adjunct Professor** · Broward College

2014 – Present

Computer & Internet Literacy · Excel Data Analysis · Data Integration & Manipulation with Tableau Prep · Data Analytics Management with Tableau · Information Systems Management

Adjunct Professor · Barry University

2014 – 2019

Introduction to Programming with C++ · Java Programming · Foundations of Information Technology · Software Engineering · Databases · Database Programming & Administration

EDUCATION**Master of Science, Computer Information Systems**

Nova Southeastern University, 2004 – 2008

Bachelor of Science, Computer Science

Universidade Federal do Ceará (UFC), 1991 – 1994

LANGUAGES

Portuguese (Native) · English (Fluent) · Spanish (Professional)

AWARDS & RECOGNITION

- Pinnacle Award: Daniel's Law Compliance & Risk Mitigation Team (Cotality)
- Pinnacle Award: QCPI, Quality Rules Solution for Property Transaction Data (Cotality)
- Pinnacle Award Nominee, 2025: Legal-X (Cotality)
- Hackathon Winner, Operational Improvement: 2024 and 2025 (Cotality)
- Hackathon Finalist, 2024: Tax Roll Intelligence (Cotality)
- Team 2000 Mission: Y2K compliance

CERTIFICATIONS

Intro to Machine Learning · Big Data Modeling and Management Systems · Introduction to Computer Science and Programming Using Python (edX, Verified) · Computational Thinking Using Python (edX, Verified) · Software Engineering Basics for Everyone (edX, Verified)