



# LUIZ TADEU MENDONÇA

AI ENGINEER — AGENTIC DEVELOPMENT & GENAI APPS | AI-DLC / LOOP  
ENGINEERING WITH CLAUDE CODE & KIRO | PYTHON · NODE.JS /  
TYPESCRIPT · AWS · TERRAFORM | 18+ YEARS ACROSS SDLC & DISTRIBUTED  
SYSTEMS · SÃO PAULO — BRAZIL

AI Engineer applying AI-native development — Claude Code, Kiro, AI-DLC / Loop Engineering — to design, build and ship production-ready systems. That's the newest layer on 18+ years of software engineering, not a fresh start: I began in enterprise integration and packaged software, moved into modern product engineering building web and native-mobile apps, and spent the last years as a distributed-applications architect — cloud and distributed systems on AWS, across regulated industries like financial services, aerospace and energy. My lane is applied GenAI and agentic development, not machine learning research: I build with agentic patterns — tool-calling, RAG, memory, evaluation loops, MCP — and bring the SDLC rigor that turns AI work into production software. Python for AI, agents and backend; TypeScript for the full-stack and web layer.

## 01

### EXPERIENCE

2023-04 — PRESENT

#### Senior Cloud Application Architect

Amazon Web Services — Professional Services

Embedded in enterprise engineering teams delivering cloud-native, distributed systems end-to-end — from application code to infrastructure as code — while moving delivery into an AI-native loop with Claude Code, Kiro and AI-DLC / Loop Engineering practices.

- Adopted AI-native development (Claude Code, Kiro, AI-DLC / Loop Engineering) in 2026 to design, build and ship production-ready systems, and structured

the practice for team-scale adoption.

- Conceived and kicked off an internal knowledge platform — a bidirectional MCP server and semantic search (vector embeddings on Amazon Bedrock) so AI agents can both search and create knowledge; MVP in progress.
- As tech lead, stood up an oil & gas operator's AWS landing zone and delivered its first modernized workload — an upstream operational-monitoring platform — owning the infrastructure and coordinating a separate consultancy's development across a ~2-year engagement the client renewed on the strength of the deliveries.
- Architected a custom, cloud-native replacement for a SaaS streaming platform — native apps across five platforms (iOS, Android, Tizen, webOS, Apple TV) plus Web, on a BFF + microservices backend, designed for future B2B enablement — from envisioning and team setup through to steering multi-vendor delivery.
- Led engagements across LATAM, presenting architecture and delivery strategy to C-level and technical stakeholders in English, Spanish and Portuguese.

2021-01 - 2023-03

## **Cloud Application Architect**

Amazon Web Services — Professional Services

Architected and implemented cloud-native solutions embedded within enterprise client teams, operating under legacy, compliance and data-sovereignty constraints.

- Stood up the cloud-native foundation of a tier-1 bank's mortgage-credit domain, migrating it off mainframe and ASPX to a full-stack modern platform — Angular; Kotlin/Spring Boot; EKS, ArgoCD and Istio; RDS, DynamoDB, SQS and SNS.
- Grew from hands-on individual contributor to tech lead of a cross-organization team of up to eight over ~2 years; the open-source foundation kept expanding after my rolloff.
- Built reusable Terraform modules and deployment patterns other engineering teams relied on, applying software-engineering rigor to infrastructure as code.

2020-06 - 2021-01

## **Senior DevOps Engineer**

Globo.com

Owned observability for the sales / subscription journey of a major direct-to-consumer streaming service and its channels — a business-critical revenue path on Angular, Salesforce and Spring Boot.

- Built an end-to-end observability platform integrating AppDynamics, Grafana, Prometheus and Zabbix into a unified monitoring solution.
- Instrumented the Angular frontend and the Salesforce / Spring Boot backends so the revenue path had first-class visibility across the stack.

2015-01 - 2020-06

## **Digital Business Integration Consultant**

Accenture

Promoted to Consultant, first as an integration architect on enterprise CRM implementation programs, then — the turning point — as an application architect at Accenture Digital, building modern web and native-mobile products. This is where the modern-engineering identity was forged and the distributed-applications architect through-line began.

- Architected the integration layers for enterprise CRM implementation programs, connecting apps, APIs and heterogeneous enterprise platforms.
- At Accenture Digital, architected and shipped modern web and native-mobile products (React, native Android, iOS), leaving packaged software behind for modern product engineering — open source, private-cloud infrastructure, and hands-on distributed-systems design.
- Grew into the distributed-applications architect role carried through to today — solution design and tech leadership on delivery teams, as a senior individual contributor.

2008-03 - 2015-01

## **Systems Integration Analyst**

Accenture

The root of the career: an enterprise integration factory. Began in web development, then built and integrated large-scale distributed systems — batch (Informatica PowerCenter ETL) and online / real-time (SOA) — growing from junior to senior analyst.

- Joined as an intern in 2008 while completing the Information Systems degree; from graduating in 2010, grew from junior to senior analyst building enterprise system integrations.
- Built and connected large-scale distributed systems across batch (Informatica PowerCenter ETL) and online / real-time (SOA) integration, wiring heterogeneous enterprise platforms together.
- Delivered across the full SDLC for enterprise clients in regulated sectors — financial services, telecom, e-commerce.

## 02

### EDUCATION

2006 – 2010

#### **Bachelor's Degree, Information Systems — electives in Databases and Operating Systems**

Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)

## 03

### CERTIFICATIONS



#### **AWS Certified Solutions Architect – Professional**

AMAZON WEB SERVICES (AWS)



#### **AWS Certified AI Practitioner**

AMAZON WEB SERVICES (AWS)



#### **AI-DLC Ambassador**

AMAZON WEB SERVICES (AWS)



#### **AWS Accreditation — AI (L200)**

AMAZON WEB SERVICES (AWS)



#### **AWS Accreditation — AI (L100)**

AMAZON WEB SERVICES (AWS)



#### **AWS Certified Developer – Associate**

AMAZON WEB SERVICES (AWS)



#### **AWS Certified Solutions Architect – Associate**

AMAZON WEB SERVICES (AWS)



#### **AWS Well-Architected Proficient**

AMAZON WEB SERVICES (AWS)



#### **AWS Accreditation — Telecom (L100)**

AMAZON WEB SERVICES (AWS)

## 04

### SKILLS

AWS CLOUD

|                         |                          |                         |                       |
|-------------------------|--------------------------|-------------------------|-----------------------|
| AWS Lambda █████        | Amazon API Gateway █████ | Amazon S3 █████         | Amazon DynamoDB █████ |
| Amazon ECS █████        | Amazon EKS █████         | Amazon SQS █████        | Amazon SNS █████      |
| Amazon CloudWatch █████ | AWS X-Ray █████          | AWS WAF █████           | Amazon Cognito █████  |
| AWS KMS █████           | Amazon RDS █████         | Amazon CloudFront █████ |                       |

## DISTRIBUTED SYSTEMS & DEVOPS

|                                        |                     |                                 |  |
|----------------------------------------|---------------------|---------------------------------|--|
| Distributed Systems Architecture █████ |                     | Microservices █████             |  |
| Serverless Computing █████             |                     | Event-Driven Architecture █████ |  |
| Terraform / IaC █████                  |                     |                                 |  |
| CI/CD █████                            | Observability █████ | Platform Engineering █████      |  |

## AI-NATIVE ENGINEERING

|                              |                        |      |
|------------------------------|------------------------|------|
| AI-DLC / Loop Engineering    | Claude Code            | Kiro |
| Context Engineering          | Agentic AI Development |      |
| MCP (Model Context Protocol) |                        |      |

## AI FOUNDATIONS

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| Large Language Models (LLM) █████     | Prompt Engineering █████                   |
| Applied Generative AI █████           | RAG (Retrieval-Augmented Generation) █████ |
| Agent Evaluation (LLM-as-judge) █████ | Amazon Bedrock █████                       |

## LANGUAGES

|              |                  |               |            |
|--------------|------------------|---------------|------------|
| Python █████ | TypeScript █████ | Node.js █████ | Java █████ |
|--------------|------------------|---------------|------------|

## LANGUAGES (SPOKEN)

|                     |                    |                        |
|---------------------|--------------------|------------------------|
| Portuguese (Native) | English (Advanced) | Spanish (Intermediate) |
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