Marcello Marques de Oliveira

Engineering Lead · AI Product Engineering

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SUMMARY

Engineering lead with experience at Deel, Amazon, Coinbase, and XP Inc. I ship AI features to production end to end: LLM calls and rules engines, Node.js and TypeScript APIs on PostgreSQL, and the React and React Native products people use. Backend work in Go and Rails (Coinbase), Kotlin and AWS Lambda (Amazon), and API gateways (XP Inc.). Three-time ACM ICPC South America finalist.

EXPERIENCE

Deel Remote

Engineering Team Lead Apr 2025 – Present

- Led the team that took Deel's on-site employment product from technical design to production with paying customers, working toward 2,000 active on-site employees under management.
- Shipped automatic job scope generation and job-description mapping with LLMs, using a rules engine as a safety net, with tracing and alerting in Datadog.
- Built the full cost calculator for on-site employees (deductions, employer costs, fees, net salary) on Deel's rules engine across multiple countries.
- Led two teams at once during the EOR reorganization, owning roadmap, staffing, and day-to-day delivery.

Senior Software Engineer Jan 2024 – Apr 2025

- Built AI-powered job scope validation with the OpenAI API and a static rules engine, then migrated it to Deel's internal AI service with batching and rate-limit handling.
- Built Mass Onboarding (CSV import, column mapping, ETL) and added multi-currency support to quotes, PDFs, and the cost calculator.
- Wrote Playwright end-to-end suites for quote creation, mass onboarding, and the cost calculator. Delivered 480+ tickets and 31 epics.

Amazon Aug 2022 – Oct 2023

Software Engineer, Export & Expansion

- Delivered a new ASIN selection query using Glance View signals, with a staged rollout that prevented unwanted selections in production.
- Built a reusable message-mapping library shared across all Constellation services (Kotlin, AWS Lambda, DynamoDB, SQS); early adopter of the AWS SDK for Kotlin.
- Led a camera-based country-of-origin finder that reads product boxes; the team placed 3rd of 50 at the internal hackathon.

Coinbase Mar 2022 – Aug 2022

Software Engineer, International Expansion

- Built the React Native payment-method screens for the PIX launch in Brazil (Relay, GraphQL), and shipped backend changes in Go microservices (Cadence workflows) and the Rails monolith behind A/B experiments.

XP Inc. Jan 2020 – Mar 2022

Software Architect · Design Ops Tech Lead

- Architected Soma, XP's design system: framework-agnostic web components with runtime multi-theming and iOS and Android versions, grown through a federated contributor model. Teams reported delivering up to 50% faster.
- Created Arsenal, a micro-frontend framework on Webpack Module Federation (about 40% faster delivery for adopting teams), and Chameleon, a CSS-in-JS library for Shadow DOM, about 8x faster than styled-components.
- Restructured the Apigee API gateway with a contract-first workflow and a linting CLI, and built the Next.js developer portal for Open API partners.
- Led a 4-person team of designers and engineers building the native Soma libraries in Swift and Kotlin.

Earlier: Toptal freelance, Hakimo (Dec 2021 – Mar 2022; React, .NET Core, MySQL, AWS) · Social Miner (2019; embeddable tracking script and ad builder) · Fuze, CESAR, LAViD (internships)

EDUCATION & HONORS

B.Sc. in Computer Engineering, Federal University of Paraíba (2014–2018) · ACM ICPC South America Finalist, 2015, 2016, 2017
Talks: The Developer Conference Recife · Design System Meetup at QuintoAndar

SKILLS

Backend: Node.js, TypeScript, PostgreSQL, Go, Kotlin, AWS (Lambda, DynamoDB, SQS) · **Frontend:** React, Next.js, React Native, design systems, web components, micro-frontends · **AI:** LLM APIs (OpenAI, Anthropic), structured outputs, evals, agents · **Quality:** Playwright, Jest, Datadog, Sentry
Languages: Portuguese (native), English (fluent), Spanish (fluent)