

Rodrigo Santos de Souza

Senior Software Engineer — Mobile & Distributed Systems

Brasília, DF, Brasil • souza.rodrigo61@gmail.com

linkedin.com/in/souzarodrigo61 • github.com/souzaRodrigo61 • souzarodrigo.com.br

Senior software engineer with 10+ years building mission-critical applications for financial institutions (Caixa, Banco do Brasil, PagSeguro) and fintechs. Specialist in native and cross-platform mobile (Swift/SwiftUI, Flutter, React Native) and high-performance backends in Rust, Node.js, Java Spring and Quarkus. Applied research in AI-agent tooling (author of codemode-cli; RTK in production). Recent .NET experience in a fintech context. Track record of end-to-end delivery: from a digital credit funnel with anti-fraud biometrics to processing R\$ 2M+ (BRL) in cashless payments.

TECHNICAL SKILLS

Mobile	Swift, SwiftUI, Combine, UIKit, TCA, Flutter, Dart, BLoC, React Native, TypeScript
Backend	Rust (Axum/Salvo), Node.js, Java (Spring, Quarkus), PostgreSQL, MongoDB, Supabase, .NET Core (recent)
AI / Agents	codemode-cli (Rhai, programmatic tool calling), RTK, sandboxing, agent-context reduction
Infra & Quality	Docker, Kubernetes, GitHub Actions, Bitrise, Datadog (RUM/Logs), OpenFeature, Maestro e2e, unit testing

PROFESSIONAL EXPERIENCE

Full-Stack Mobile Developer

02/2026 – present

Vale Consignado (payroll-loan fintech)

- Built the payroll-loan credit funnel from scratch in the main Flutter app: simulation, anti-fraud biometrics/document verification, OTP, e-signature and disbursement, with interrupted-journey resumption.
- Consolidated home-screen orchestration (multiple pollers and cubits) into a single BLoC + restartable() architecture, eliminating race conditions and production bugs (blank screen, concurrent polling).
- Developed the white-label React Native SDK for partners (B2B2C model): npm Trusted Publishing (OIDC), end-to-end document encryption (RSA-OAEP + HMAC-SHA256) and remote feature-flag kill switch.
- Implemented observability with Datadog (RUM + Logs) across Flutter and React Native, with 100% test coverage in critical telemetry, cache and feature-flag modules.
- Contributed to the .NET credit-decision microservice (per-partner eligibility, RSA decryption and HMAC hashing for secure lookup) and to universal deep linking in the Next.js web app.

iOS Developer

10/2022 – 12/2025

Qintess — Loterias Caixa (Caixa Econômica Federal, national lottery app)

- Developed the official Caixa Lotteries iOS app, used by millions of users, in Swift 5.5+ (Storyboard/XIB, MVC), in a 4-developer team using git flow.
- Implemented VoiceOver accessibility and Apple Wallet integration, ensuring compliance with Apple guidelines.

iOS Developer

12/2021 – 09/2022

Invillia — PagSeguro

- Developed the FGTS anniversary-withdrawal platform in the PagSeguro ecosystem (Swift, SwiftUI, Flutter Method Channel), with feature toggles and CI/CD on Bitrise.

Mobile Developer

04/2021 – 12/2021

Vizir — Natura & Co

- Developed Natura Pay and Natura FVN in a hybrid native-iOS + React Native project (iOS Native Modules), with a Node.js/TypeScript backend on AWS.

Senior Systems Analyst

10/2019 – 11/2020

Connectis — Banco do Brasil

- Migrated the card-network interchange-fee validation system (Visa, Mastercard, Elo) from COBOL mainframe to a hybrid architecture with Java Quarkus, Spring Batch and Angular 8 on BB's 3.0 platform.

Systems Analyst

08/2018 – 11/2019

Cast Group — Banco do Brasil

- Developed the SBP Blockchain project (Brazilian powers-of-attorney system) with Hyperledger Fabric, Node.js and OpenShift, plus mainframe maintenance (COBOL/Natural).

Junior Systems Analyst

06/2016 – 08/2018

Stefanini

- Maintained and migrated mainframe routines (COBOL and Natural) and developed Java services with AngularJS frontends.

SELECTED PROJECTS

DivinaPay (Divina Cashless) — Founding Developer

Cashless payments platform for live events: Flutter app, Rust backend (Axum/Salvo) and PostgreSQL. Processed R\$ 2M+ (BRL) across 30+ events with high concurrent-user peaks. divinapay.com

Campaign management system — Developer (volunteer work)

Campaign and financial-management platform in Next.js + Rust with multi-tenant architecture, maintained as volunteer work; cut fixed cloud costs by 100% (USD 16 -> USD 0) and migrated to self-managed VPS infrastructure.

codemode-cli — Open source

Rust binary for programmatic tool calling in AI agents: one sandboxed Rhai script replaces N tool calls, with no MCP and no resident process. Measured on a real task: 6 -> 1 (83%). In real use: 279 runs, 3,813 tool-calls avoided (68% of runs collapse 3+ primitives). github.com/SouzaRodrigo61/codemode-cli

rtk — Open source (public fork)

CLI proxy that compresses shell output before it enters the agent context; filters also embedded in-process in codemode-cli. In production: 17.8k commands, 91% output reduction. github.com/SouzaRodrigo61/rtk

EDUCATION

Postgraduate degree in Mobile Development — Universidade Católica de Brasília (UCB)

2019 – 2021

B.Sc. in Information Systems — Centro Universitário Projeção

2016 – 2019

LANGUAGES

Portuguese (native) • English (intermediate)