

Sergio Brito

Senior Full-Stack Engineer | Ruby on Rails · React · React Native · TypeScript · Python | AI Integration | 11+ Years
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PROFESSIONAL SUMMARY

Senior full-stack engineer with 11+ years building production systems end-to-end — backend, frontend, mobile, and infrastructure — across fintech, healthtech, e-commerce, and B2B SaaS. Ruby on Rails has been my primary stack for years, alongside React, React Native, TypeScript, and Python. I care about clean data modeling, solid architecture, and keeping systems simple enough to scale without becoming a mess. I have three of my own apps live in production, all built solo from zero. Daily user of Claude Code and Cursor, with production AI experience (agents, RAG, multi-LLM orchestration) since 2022.

PROFESSIONAL EXPERIENCE

MONUMENT — August 2025 to May 2026

Senior Data Migration Engineer

US-based self-storage SaaS startup. Led data migration for dozens of enterprise clients, hundreds of facilities, and thousands of units.

- Mapped and transformed complex datasets from competing platforms into a unified schema, handling financial calculations: amortization, interest accruals, late fees, and penalty recalculations.
- Designed idempotent migration pipelines with multi-level validation (unit, customer, facility, date range) so source-vs-target totals reconciled to the cent before cutover.
- Built internal tooling that significantly accelerated migration speed and reduced onboarding friction.
- Used Claude Code as primary development driver: agentic workflows for scaffolding ingestion scripts, refactoring transformation logic, and reviewing migration diffs.

Stack: TypeScript, Node.js, MySQL, AWS, Claude Code, Git, CI/CD

VIK — May 2023 to July 2025

Principal Software Engineer

Enterprise B2B platform. Led platform re-architecture, distributed systems design, and AI product development across multiple engineering teams.

- Led a full platform re-architecture achieving 99%+ performance improvement through query tuning, Sidekiq async jobs, and Redis caching — dashboards that took 2 days to load now respond instantly.
- Drove the evolution from monolith to distributed architecture: identified bounded contexts during the re-architecture, extracted critical workloads into independent microservices, and introduced event-driven messaging (Kafka, RabbitMQ) to improve scalability, availability, and fault isolation.
- Designed and shipped the company's AI platform from zero: multi-agent system with function calling, RAG over proprietary data, and multi-LLM orchestration via OpenRouter and LiteLLM — routing requests across OpenAI, Claude, and Gemini per task.
- Launched 'Vik Nutri' AI product to 1,000+ users — conversational AI with tool use, structured outputs, and per-user memory across sessions; owned the full stack from agent design to mobile UX.
- Drove company-wide adoption of AI-augmented development: defined prompting conventions, code-review patterns for AI-generated code, and mentored every dev team on integrating Cursor and Claude Code.
- Built interactive analytics dashboards on Rails + React with a Looker/BigQuery layer.

Stack: Ruby on Rails, React, TypeScript, PostgreSQL, Sidekiq, Redis, Kafka, RabbitMQ, OpenAI, Claude, Gemini, OpenRouter, LiteLLM, Cursor, BigQuery, Looker, AWS, Docker

META | YOUSE (Caixa Digital Insurance) — November 2022 to May 2023

Senior Software Engineer (Consultant)

Brazil's largest digital insurer. Worked within a 50+ microservices event-driven architecture, delivering distributed services and critical data migration.

- Designed Node.js/Ruby microservices integrated into a 50+ service event-driven messaging architecture (Kafka-based).
- Led legacy data migration (CSV/JSON to unified schemas) critical for risk assessment across multiple services.
- Built automated validation pipelines and React dashboards for claims analytics.
- Managed AWS deployments (S3, RDS, ECS) with CI/CD across the microservices landscape.

Stack: Node.js, Ruby, React, PostgreSQL, AWS (S3, RDS, ECS), Kafka, microservices, CI/CD, Docker

ADMINER — September 2021 to November 2022

Software Engineer

E-commerce analytics platform serving B2C customers at scale.

- Built an analytics platform handling millions of requests per day with async data processing.
- Shipped the 'Adminer Analytics' Chrome extension with 50,000+ downloads.
- Designed proxy orchestration and complex aggregations across PostgreSQL, MongoDB, and Elasticsearch.
- Revamped the frontend (Angular + Tailwind) and introduced CI/CD pipelines, reducing deployment errors by 90%.

Stack: Node.js, Ruby, Angular, PostgreSQL, MongoDB, Elasticsearch, Tailwind CSS, CI/CD

MJV TECHNOLOGY & INNOVATION | BRADESCO INSURANCE — November 2020 to November 2021

Java Software Developer

One of Brazil's largest banks. Built critical async batch processing systems for insurance operations.

- Developed critical features in Java/Spring Boot, including async batch processing up to 1M records/day.
- Built ETL pipelines with Apache Airflow for cross-system data integration.
- Optimized PostgreSQL performance through indexing, partitioning, and query tuning — cut average query time by 60%.
- Collaborated within a large enterprise codebase with strict review and deployment practices.

Stack: Java, Spring Boot, PostgreSQL, Apache Airflow, Git, Jenkins

PSG | DETRAN (Government Traffic Department) — January 2017 to November 2020

Java Developer

Full lifecycle of a large-scale government infractions system integrated with multiple public platforms.

- Owned the full lifecycle of a high-availability infractions system handling millions of vehicles and integrations with multiple government APIs.
- Built internal tooling and designed relational data models in PostgreSQL.
- Established DevOps practices on Heroku — achieved 99.9% uptime in production over multiple years.
- Acted as a cross-functional engineer covering backend, database modeling, and operations.

Stack: Java, Spring Boot, PostgreSQL, Heroku, REST APIs, Git

SIDE PROJECTS (Live in Production, Built Solo)

Monorepo architecture (Rails + React Native/Expo), deployed on DigitalOcean with CI/CD. Every one ships real AI features in production.

SelfScore (selfscore.app) — Amateur football analytics platform. Multi-camera synchronization plus a GPT Vision pipeline ingests footage from multiple angles, aligns timelines, runs computer vision inference to extract plays and player actions, and drives gamification (XP, levels, trophies) with real-time chat.

Stack: Rails 8, React Native, Expo, OpenAI Vision, PostgreSQL, Sidekiq

AircTech — AI-powered development studio. Automated project scoping via conversational AI with function calling and structured outputs; the agent drives discovery, scores project viability, and manages the full client lifecycle.

Stack: Rails 8, React Native, OpenAI, Claude, PostgreSQL

Free Diária — Gig-work marketplace. Intelligent matching, swipe-based discovery, digital wallet (PIX), bidirectional reviews, and real-time chat.

Stack: Rails, React Native, Stripe, Google Maps, PostgreSQL

CORE SKILLS

Backend: Ruby on Rails, Python, Node.js / TypeScript, Java, REST APIs, GraphQL, Sidekiq, background jobs

Frontend / Mobile: React, React Native, Expo, Angular, Stimulus / Hotwire, Tailwind CSS

Databases: PostgreSQL (advanced tuning, indexing, partitioning), MySQL, MongoDB, Elasticsearch, pgvector, BigQuery

AI / LLM: Agents, function calling, RAG, computer vision pipelines, OpenAI, Claude, Gemini, OpenRouter, LiteLLM

Cloud / DevOps: AWS (S3, RDS, ECS, Lambda), DigitalOcean, Docker, Kubernetes, GitHub Actions, GitLab CI, Heroku

Quality / Methods: TDD / BDD (RSpec, Jest), E2E testing, CI/CD, Agile, Scrum, Shape Up, async-first collaboration

EDUCATION & LANGUAGES

B.Sc. Software Engineering — Federal University of Mato Grosso do Sul, Brazil

Languages: Portuguese (Native) · English (Advanced / C1) · Spanish (Advanced)