Rômulo Ferreira Fraga

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PROFESSIONAL SUMMARY

Software Engineer specializing in backend and distributed systems, with 3+ years of professional software development experience designing, building, and operating production services using C#, .NET, AWS and PostgreSQL. Experienced in owning projects across the full software development lifecycle, from ambiguous business requirements and system design to implementation, rollout, production validation, and operations. Strong background in API design, asynchronous workflows, billing and financial systems, reliability, scalability, and cross-team technical initiatives.

TECHNICAL SKILLS

Languages: C#, SQL, JavaScript / Node.js
Backend: .NET, ASP.NET Core, REST APIs, background workers, asynchronous processing
Architecture: Distributed Systems, Microservices, System Design, DDD, Clean Architecture, Design Patterns, Reliability, Scalability
Cloud & Messaging: AWS, Amazon SQS, Elastic Beanstalk
Data: PostgreSQL, Amazon Redshift, Entity Framework Core, OpenSearch
Engineering: Automated Testing, Code Reviews, CI/CD, Observability, Incident Response, Agile Development

PROFESSIONAL EXPERIENCE

VTEX
Brazil
Software Engineer L2 (Mid-level) | Jul 2026 – Present
Software Engineer L1 (Junior) | Apr 2024 – Jul 2026
Software Analyst | Dec 2022 – Apr 2024

- Designed and delivered the Master Data billing and platform-credit wallet system, including credit accrual, consumption, reversal, expiration, and transactional integration with invoice generation. The first production billing cycle covered **2,358 companies**, generated approximately **$393K USD in net monthly revenue**, and applied approximately **$162K USD in platform credits**; total Master Data revenue potential reaches approximately **$941K USD/month** as temporary customer waivers expire.
- Analyzed the first production billing cycle by reconciling document usage, company, and invoice datasets, identifying eligible accounts that were not billed and approximately **$51K USD/month in additional potential net revenue** for further validation.
- Owned the end-to-end design and delivery of the **VTEX Rise self-service account provisioning API**, translating high-level product requirements into technical discovery, an RFC, API contracts, validation rules, rate limiting, implementation, rollout, and production validation.
- Coordinated across multiple engineering teams to integrate registration and account-creation workflows, enabling customers to create VTEX accounts through a fully digital self-service onboarding flow.
- Investigated production indexing and storage limitations affecting billing workflows in Master Data and contributed to the architectural direction to migrate persistence workloads to **Aurora PostgreSQL**, improving data integrity, query flexibility, and scalability.
- Implemented support for Brazil's new alphanumeric CNPJ format while preserving compatibility with existing numeric identifiers, including check-digit validation and comprehensive automated coverage for valid, invalid, lowercase, malformed, and edge-case inputs.
- Diagnosed cross-account authorization failures affecting PII accounts by tracing credential behavior across distributed services and collaborating with the owning platform team to define a reliable credential-based validation strategy.

Pagar.me
Integration Analyst | Aug 2020 – Dec 2022
Brazil

- Guided external developers through integrations with Pagar.me REST APIs and SDKs across e-commerce, marketplace, and open-source platforms, supporting implementations in C#, JavaScript, and PHP.
- Performed technical requirements analysis with customers and proposed API integration approaches based on their payment and operational workflows, including recurring billing, antifraud, receivables, ERP integrations, and payment processing.
- Investigated API integration and production failures using observability tools, functional testing, and request-level trou-

bleshooting, working directly with customer engineering teams to resolve issues.

EDUCATION

Universidade Federal do Ceará 2015 – 2020
Bachelor's Degree, Environmental and Sanitary Engineering

Descomplica 2021 – 2022
MBA, Business Intelligence

Descomplica 2021 – 2022
MBA, Strategic Project Management and Agile Methodologies

Escola DNC 2022 – 2023
Professional Product Management