Túlio Ribeiro dos Anjos

Senior Software Engineer
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SUMMARY

Senior Software Engineer specializing in high-velocity feature delivery within distributed cloud environments. Expert in executing architectural roadmaps with full autonomy, translating complex requirements into robust .NET solutions. Proven track record of building and optimizing high-throughput systems (150M+ daily events), balancing rapid development with strict performance and cost constraints.

TECHNICAL SKILLS

Languages: C#, Java, TypeScript, SQL.
Core: Distributed Systems, High-Scale Ingestion, Legacy Modernization, Performance Engineering.
Cloud & Infra: AWS (Lambda, S3), Azure (Event Hubs), Redis, Docker, CI/CD.
Data: BigQuery, SQL Server, PostgreSQL, MongoDB.
Frameworks: .NET 8, ASP.NET Core, Spring Boot, Angular 17, Entity Framework, Spring Data JPA.

PROFESSIONAL EXPERIENCE

BairesDev | *Remote*
Senior Software Engineer (Contract) | *Jun 2022 – Nov 2025*

Deployed as a core engineering resource for high-scale US tech clients. Specialized in distributed systems, legacy modernization, and high-throughput data architecture.

Project: OEM Telematics & IoT Platform
Deployed to Global Automotive OEM (Bus/Transit)

- **Big Data Optimization:** Refactored the aggregation service responsible for generating rollup tables from raw telemetry. Implemented a **BigQuery staging-table MERGE pattern** to handle deduplication and bulk upserts, reducing job runtime from **60+ minutes to 30 seconds**.
- **Scalability:** Enabled horizontal scaling for the high-throughput ingestion service (150M+ daily events) by migrating state from local memory to **distributed Redis**, eliminating cache inconsistency across instances.
- **Core Algorithms:** Developed the driver-attribution logic to map telemetry to operators. implemented **timeline reconstruction algorithms** to handle noisy logon events, solving edge cases like mid-trip driver swaps and multi-vehicle assignments.

Project: Fintech & POS Platform ($4.5B+ Volume)
Deployed to Fintech Platform for Enterprise Retail

- **Distributed Architecture:** Engineered a fault-tolerant, bi-directional bridge between the core ledger and Shopify. Implemented **AWS SQS/Lambda** and **Polly policies** to handle GraphQL rate limits and ensure eventual consistency for real-time inventory reconciliation.

- **Scale & Impact:** Unlocked multi-channel sales for high-volume retailers by orchestrating bulk catalog ingestion (100k+ SKUs per merchant), directly supporting the platform's **$4.5B+ GMV**.
- **Computer Vision:** Built serverless AWS Lambda/OpenCVSharp pipeline with context-aware cropping to generate marketing assets.

Project: Enterprise Privacy SaaS
Deployed to VC-Backed Privacy Platform

- **Security:** Migrated raw SQL to Spring Data JPA, eliminating injection risks.
- **Modernization:** Refactored brittle data-access patterns to support rapid feature development, reducing technical debt in the platform's core.

Grupo Imagetech | *Campo Grande, Brazil*
Senior Software Engineer | Aug 2019 – Jun 2022

Client: State Court of Accounts (TCE-MS)

- **Distributed ETL:** Architected a Linux-based ingestion pipeline to extract financial data from heterogeneous municipal environments. Engineered a custom Java/Pentaho CLI to bypass vendor lock-in and automate connectivity across 79 distinct jurisdictions.
- **Resilience:** Implemented custom GZIP compression and error-recovery protocols to ensure reliable delivery and data integrity over unstable, low-bandwidth government networks.
- **Modernization:** Led the migration of the central auditing dashboard from legacy JSF to Angular, decoupling the frontend to accelerate fiscal monitoring capabilities.

Fonte Tecnologia | *Campo Grande, Brazil*
Software Engineer | Aug 2017 – Aug 2019

Client: State Dept. of Justice (Sejusp-MS) / Military Police

- **Mission-Critical Infrastructure:** Contributed to the Integrated Operational Management System (SIGO) and Computer-Aided Dispatch (CADG), the core command-and-control platforms used by state police for emergency response.
- **Full-Stack Development:** maintained and expanded backend services (.NET Web API) and frontend interfaces to support real-time incident tracking, ensuring high availability for 24/7 public safety operations.

PSG Tecnologia | *Campo Grande, Brazil*
Software Engineer | Mar 2013 – Aug 2017

Client: State Secretariat of Finance (SEFAZ-MS) / SGI

- **Strategic Resource Planning (PPA):** Owned the full-stack development of the Multi-Year Plan module within the State Financial Planning System (SPF). Designed data models used by all state secretariats to define 4-year fiscal programs.
- **Recursive Data Structures:** Engineered a recursive SQL engine to model complex legal hierarchies (articles, paragraphs). Implemented automatic hierarchical renumbering and validation logic.
- **Custom Tooling:** Built a specialized browser-based editor and visual "diff" engine, enabling state auditors to draft and version multi-year budget legislation.

EDUCATION & CERTIFICATIONS

Bachelor of Engineering - Computer Engineering | Uniderp (2013)
Oracle Certified Professional: Java SE 11 Developer | Oracle (2021)
EF SET English Certificate (Score: 79/100) | C2 Proficient Level