

# Túlio Ribeiro dos Anjos

## Senior Software Engineer

Remote (based in Campo Grande, Brazil – UTC-4)

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## SUMMARY

Senior Software Engineer with 12+ years of experience specializing in Distributed Systems, .NET, and Java. I build high-throughput backend infrastructure (150M+ daily events) and modernize legacy environments for US-based startups and enterprises. My expertise lies in solving hard architectural problems—optimizing data pipelines, securing complex fintech integrations, and refactoring brittle code—while working as an autonomous, embedded core contributor.

## TECHNICAL SKILLS

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

### BairesDev | Remote

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

Embedded in US product teams to solve scaling bottlenecks and architectural debt. I did not work on maintenance tickets; I built core infrastructure.

### Client: Global Automotive OEM (Telematics Platform)

- **Fixed a 60-minute bottleneck:** The aggregation service took over an hour to populate rollup tables from raw telemetry. I refactored the entire service and implemented a **BigQuery staging-table MERGE pattern**. It now completes the job in **30 seconds**.
- **Scaled to 150M+ daily events:** The ingestion API relied on local memory to cache and merge vehicle signals, causing Out-of-Memory crashes during spikes. I rewrote the caching strategy to use **distributed Redis**, eliminating crashes and enabling horizontal scaling.
- **Solved complex logic:** I wrote the algorithms that figure out who is driving the bus. This required timeline reconstruction logic to handle edge cases like mid-trip driver swaps and noisy logon events.

### Client: Fintech Platform (Enterprise Retail)

- **Opened a major sales channel:** The platform's users (independent retailers) were locked into a proprietary POS. I built the bidirectional bridge that allowed them to sell their inventory on **Shopify**. This wasn't just a data dump; it was a live sync engine.
- **Event-Driven Architecture:** I decoupled the legacy POS from Shopify's strict rate limits using **AWS SNS and SQS**. Changes in the legacy ledger triggered events consumed by **Lambda**, which then updated the Shopify store via their **GraphQL API**.
- **Handling Complexity:** Syncing products is easy; syncing a catalog with **100k+ SKUs** and thousands of variants (colors, sizes, weights, images) per store is hard. I built the bulk-loading logic to map these complex hierarchies and handle webhooks to decrement the core ledger inventory immediately upon a Shopify sale.

## **Client: VC-Backed Privacy SaaS**

- **Eliminating Technical Debt:** The platform relied on brittle raw SQL that made feature development dangerous and slow. I migrated the persistence layer to **Spring Data JPA**, eliminating injection risks and standardizing data access so the team could ship features faster.

**Grupo Imagetech** | *Campo Grande, Brazil*

Senior Software Engineer | Aug 2019 – Jun 2022

## **Client: State Court of Accounts (TCE-MS)**

- **Reliable Ingestion over Unreliable Networks:** We needed to pull financial data from 79 different municipalities with terrible internet and different database vendors. I built a custom **Java/Pentaho CLI** to run locally on their servers, bypass vendor lock-in, and compress data via GZIP so it could actually traverse the network.
- **Frontend Architecture (e-Contas):** I rebuilt the fiscal submission portal (“e-Contas”) from scratch, migrating from legacy JSF to **Angular**. I architected it as a **micro-frontend**, allowing the Court to embed the tools directly into their central “TCE Digital” platform. I owned the full UI implementation, ensuring strict validation for the XML-based government accounts.

**Fonte Tecnologia** | *Campo Grande, Brazil*

Software Engineer | Aug 2017 – Aug 2019

## **Client: Military Police & Dept. of Justice**

- **High Stakes:** Worked on the Computer-Aided Dispatch (CADG) system. If this software goes down, 911 calls don’t get answered. I maintained the .NET Web API backend that kept the system running 24/7.
- **Real-time tracking:** Built features for the Integrated Operational Management System (SIGO) to track incidents in real-time.

**PSG Tecnologia** | *Campo Grande, Brazil*

Software Engineer | Mar 2013 – Aug 2017

## **Client: State Secretariat of Finance**

- **Built the State Budget System:** I owned the full-stack development of the Multi-Year Plan module. This is the software the government uses to define its 4-year fiscal plan.
- **Recursive SQL:** Legal hierarchies (Articles -> Paragraphs -> Sections) are deeply nested. I wrote a recursive SQL engine to model this structure and automatically handle renumbering when laws changed.
- **Internal Tooling:** Built a browser-based editor that allowed auditors to visually “diff” budget versions, saving them hours of manual checking.

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## **EDUCATION**

**Bachelor of Engineering - Computer Engineering** | Uniderp (2013)

**Oracle Certified Professional: Java SE 11 Developer** | (2021)

**English:** Full Professional Proficiency (C2)