

# Túlio Ribeiro dos Anjos

## Senior Software Engineer

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

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## SUMMARY

Senior Software Engineer specializing in high-throughput, business-critical systems, taking ownership of mature architectures to make them faster, cheaper, and more resilient. Proven track record of re-engineering telematics pipelines (150M+ daily events), architecting fintech integrations (\$4.5B+ volume), and modernizing state-level critical infrastructure. Focus on Distributed Systems, .NET 8, and Cloud Architecture.

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## 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.

**AI Integration:** Model Context Protocol (MCP), OpenAI Tool Use, Context-Aware State Compression (proof-of-concept).

**Frameworks:** .NET 8, ASP.NET Core, Spring Boot, Angular 17, WPF/MVVM, Entity Framework, Spring Data JPA.

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## 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 Client: Global Automotive OEM (Bus/Transit)

- **Performance:** Refactored aggregation service for TB-scale datasets. Implemented bulk inserts and deduplication, reducing job runtime from 60+ minutes to under 30 seconds.
- **Cost Optimization:** Rewrote high-cost reporting queries to use pre-aggregated rollup tables. Reduced execution cost by 99% (1.80 to <0.01 per run).
- **Scalability:** Enabled horizontal scaling for ingestion (150M+ daily events) by replacing local caching with distributed Redis.
- **Logic:** Engineered core driver-attribution algorithms to map telemetry to specific operators on complex routes.

#### Project: Fintech & POS Platform (\$4.5B+ Volume) Client: High-Volume US Fintech Provider

- **Architecture:** Architected bidirectional POS-Shopify bridge. Orchestrated 100k+ SKU bulk loads and real-time webhook reconciliation for sales/inventory.
- **Computer Vision:** Built serverless AWS Lambda/OpenCVSharp pipeline with context-aware cropping to generate marketing assets.
- **Cost:** Replaced commercial image library with custom solution, permanently eliminating licensing fees and vendor dependency.

**Project: Enterprise Privacy SaaS** Client: 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**

- **Real-Time Dispatch:** Diagnosed and resolved critical rendering lag in the Computer-Aided Dispatch (CADG) map. Optimized the Knockout.js event loop and implemented requestAnimationFrame, enabling dispatchers to track hundreds of active police units with near-zero UI latency.
- **Incident Reporting:** Engineered the .NET Web API ingestion layer for the emergency call module, ensuring high availability for life-critical incident data.

**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.

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**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