

# Túlio Ribeiro dos Anjos

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## SUMMARY

Senior Software Engineer with 12+ years of experience specializing in high-scale backend systems, cloud architecture, and complex integrations. Proven track record of optimizing performance for mission-critical public security systems and engineering data pipelines handling 150M+ daily events. Expert in bridging legacy enterprise software with modern cloud infrastructure to reduce operational risk and cost.

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## TECHNICAL SKILLS

**Languages:** C#, .NET 8, Java, TypeScript, SQL, JavaScript. **Frameworks:** ASP.NET Core, Spring Boot, Angular 17, React, WPF/MVVM, Entity Framework, Spring Data JPA. **Cloud & Infra:** AWS (Lambda, S3, SQS, SNS), Azure (Event Hubs, Pipelines), Docker, CI/CD. **Data:** SQL Server, BigQuery, PostgreSQL, MongoDB, Redis. **Core Competencies:** High-Scale Architecture, System Integration, Legacy Modernization, Performance Tuning.

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## PROFESSIONAL EXPERIENCE

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

**Project: Fleet Management SaaS (NYC Client)** | Feb 2025 – Present

- **High-Scale Data Implementation:** Developed high-performance APIs and aggregation logic to process **150M+ daily telemetry events**. Built the full-stack fuel consumption dashboard (Angular 17/.NET 8), giving managers real-time visibility into fleet efficiency.
- **Internal Tooling & Automation:** Solely designed and shipped a WPF/.NET 8 desktop application for QA. Replaced error-prone manual workflows with a direct Azure Event Hubs connector, significantly reducing test setup time and increasing signal reliability.
- **Core Logic Optimization:** Engineered the driver-to-trip assignment algorithm, implementing signal debouncing and noise filtering to ensure 99.9% attribution accuracy for complex multi-driver routes.

**Project: High-Volume E-Commerce Platform (US Client)** | Jan 2023 – Jan 2025

- **Microservice Architecture:** Designed and built a dedicated integration microservice (.NET 6) from scratch to bridge legacy ERPs with Shopify. Handled bulk syncs and real-time delta updates for **100k+ SKUs**.
- **Algorithmic Image Processing:** Spearheaded a migration from ImageSharp to a custom SkiaSharp/OpenCV library to resolve licensing risks. Architected a serverless pipeline (AWS Lambda) for context-aware cropping, eliminating manual editing labor.
- **Shopify Integration:** Implemented secure OAuth flows and leveraged GraphQL APIs to handle complex inventory management and order reconciliation.

**Project: B2B Data Privacy SaaS (US Client)** | Jun 2022 – Jan 2023

- **Security Remediation:** Executed the migration of the data access layer from raw SQL to type-safe Spring Data JPA, eliminating critical SQL injection vulnerabilities.

- **Performance Tuning:** Optimized complex database queries within the new JPA implementation to reduce latency and improve response times for end-users.
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**Grupo Imagetech** | *Campo Grande, Brazil Senior Full Stack Engineer* | Aug 2019 – Jun 2022

- **Distributed Data Pipeline:** Engineered a pipeline for financial audits across 79 municipalities. Built a Java CLI tool using Pentaho Kettle for ETL, implementing GZIP compression to ensure reliability over unstable, low-bandwidth government networks.
  - **Legacy Modernization:** Led the complete migration of a legacy JSF application to Angular 13, decoupling the frontend and accelerating the team's feature release cycle.
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**Fonte Tecnologia** | *Campo Grande, Brazil Full Stack Engineer (Client: State Public Security)* | Aug 2017 – Aug 2019

- **Mission-Critical Optimization (CADG):** Diagnosed and resolved critical rendering lag in the real-time dispatch system used by Military Police. Used Chrome Profiling to identify bottlenecks and implemented `requestAnimationFrame` to restore 60fps performance for tracking hundreds of active patrol units.
  - **Emergency Systems:** Built the emergency call reporting module within the SIGO ecosystem (.NET Web API), ensuring high availability for command-and-control decision making.
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**PSG Tecnologia** | *Campo Grande, Brazil Software Engineer (Client: State ERP)* | Mar 2013 – Aug 2017

- **Enterprise Resource Planning (ERP):** Core developer for the State Financial Planning System (SPF). Designed the database schema for legislative drafting, implementing recursive SQL logic to model complex legal hierarchies.
  - **Compliance & Audit:** Engineered a visual "diff" engine and rich text editor (jQuery) to track multi-year budget revisions, ensuring strict compliance with public-sector accounting standards (NBCASP).
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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 79/100 (C2 Proficient)** | EF Standard English Test