Túlio Ribeiro dos Anjos

Senior Software Engineer (.NET / Cloud Backend)
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PROFESSIONAL SUMMARY

Senior Software Engineer with 12+ years of experience designing and scaling distributed systems and high-throughput data pipelines. **Specialist in the .NET ecosystem (C#)** with a focus on modernizing legacy applications and optimizing performance for high-volume, cloud-based SaaS platforms. Proven track record of **autonomous delivery embedded within US-based product teams** and Brazilian government agencies, building mission-critical solutions in Telematics, Retail, and Public Sector. Comfortable leveraging AI assistants (LLMs) to accelerate design and development, and seeking roles with greater **architectural responsibility** in cloud-native .NET environments (AWS/Azure).

TECHNICAL SKILLS

- **Core Backend:** C#, .NET 8, ASP.NET Core, Web API, Entity Framework (EF) Core, LINQ, SQL Server
- **Cloud & Messaging:** AWS (Lambda, SQS), Azure (Event Hubs), RabbitMQ, MassTransit, Redis
- **Data & Storage:** Google BigQuery, PostgreSQL, SQL Server, MongoDB
- **DevOps & Platform:** Docker, Kubernetes (Helm), Terraform, CI/CD (Azure DevOps, GitLab)
- **Process & Practices:** Domain-Driven Design (DDD), GitFlow, Conventional Commits, Code Reviews & Mentoring

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PROFESSIONAL EXPERIENCE

BAIRESDEV | Remote (US-Based Clients)
Senior Software Engineer (Contractor) | *Jun 2022 – Nov 2025*
Fully embedded core team member for US enterprise clients, responsible for end-to-end feature delivery, system optimization, and mentoring in Agile/Scrum squads.

Project: Enterprise Fleet Telematics SaaS

- **High-Volume Data Engineering:** Enhanced and maintained backend services for a large-scale fleet management platform, supporting an ingestion pipeline that processes **150M+ vehicle telemetry signals daily** across TB-scale datasets.
- **Performance Optimization (99% Reduction):** Refactored a critical aggregation service from single-record to batch processing, reducing execution time from **60 minutes to 30 seconds** for fleet-wide data rollups.
- **Distributed Systems:** Implemented features within a decoupled microservices architecture using **RabbitMQ** and **MassTransit** for asynchronous event processing and improved resilience.
- **Team Leadership:** Selected by client management to mentor underperforming peers and **onboard a new Team Lead**, establishing code review standards and improving delivery quality.
- **Data Integrity:** Resolved critical data corruption issues in **Google BigQuery** by introducing deterministic IDs and idempotent processing of duplicate vehicle event messages.

Project: Retail POS & Inventory Platform

- **System Integration:** Engineered a bi-directional Shopify integration for a high-volume POS platform, syncing retailer inventories against a **master catalog of 100,000+ items** and overcoming Shopify's 100-variant limit via a custom catalog-splitting logic layer.
- **Serverless Engineering:** Built a serverless image collage generator on **AWS Lambda**, including a custom edge-detection algorithm for context-aware cropping after identifying incompatibilities with standard libraries (e.g., OpenCV) in the Lambda environment.
- **Infrastructure & DevOps:** Contributed to platform reliability by maintaining **Terraform** configurations and **Helm** charts and integrating them into **Azure DevOps** pipelines to support repeatable feature deployments.
- **Cost Optimization:** Developed a custom image processing library using **SkiaSharp**, packaged as an internal NuGet artifact and adopted by all backend teams to replace a costly third-party licensed tool.

Project: Privacy-by-Design SaaS

- **Legacy Modernization:** Migrated a legacy persistence layer to modern RESTful patterns for a VC-backed GDPR/CCPA compliance platform. Refactored data access to eliminate SQL injection risks and streamline frontend integration.

GRUPO IMAGETECH | Campo Grande, Brazil
Senior Software Engineer | *Aug 2019 – Jun 2022*
*Embedded within the **State Audit Court (TCE-MS)** to modernize audit and analytics infrastructure.*

- **Statewide ETL Automation:** Designed and built a **Java-based ETL tool** to standardize and extract data from diverse legacy databases across 79 municipalities, ingesting it into a central **MongoDB** repository to enable automated public-sector audits.
- **Resilient Ingestion over Low Bandwidth:** Implemented a custom CLI ingestion engine deployed to remote municipalities, using GZIP compression and retry strategies to reliably transfer financial data over constrained networks.
- **Modernization & CI/CD:** Containerized legacy applications with **Docker** and configured **GitLab CI/CD** pipelines to automate testing and deployments.
- **Fiscal Submission Portal:** Developed **Angular** frontend components for the state-wide account submission portal, integrated into a micro-frontend architecture.

FONTE TECNOLOGIA | Campo Grande, Brazil
Software Engineer | *Aug 2017 – Aug 2019*
*Embedded within the **State Secretariat of Justice & Public Safety (SEJUSP)** to support mission-critical operations.*

- **911-Equivalent Dispatch System (CADG):** Maintained and extended the **ASP.NET Web API** backend for the Computer-Aided Dispatch system used by Military Police, ensuring high availability for real-time incident creation and patrol unit management.
- **Operational Integration (SIGO):** Delivered features for the Integrated Operational Management System (SIGO), the central database for statewide police incident reports and public safety statistics.

PSG TECNOLOGIA | Campo Grande, Brazil
Software Engineer | *Mar 2013 – Aug 2017*
*Embedded within the **State Secretariat of Finance (SEFAZ-MS / SGI)** to build fiscal planning systems.*

- **State Planning & Finance System (SPF):** Owned full-stack development for the state's centralized planning and finance system, used for multi-year fiscal planning (PPA) and budget execution.
- **Complex Data Modeling:** Implemented a Legislative Drafting Engine using **recursive SQL** to model deep legal hierarchies (articles, paragraphs) and built an interactive UI for version comparison and diffing.

EDUCATION & CERTIFICATIONS

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