

# Luiz Tessorolli

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<https://github.com/tessorolli>

## Summary

I am a skilled and experienced full-stack C# Software Engineer / Solutions Architect with over 15 years of expertise in architecting, designing, developing, testing, deploying, and managing software solutions. With a Bachelor's degree in Computer Engineering from Unilins in Brazil, I bring a strong technical background, with extensive cloud-native and distributed systems experience and a passion for tackling high-complexity projects and delivering high-quality applications.

### Technical Skills:

- ✓ Proficient in C#, .NET Framework, .NET Core (Dot Net), Java, JavaScript and TypeScript;
- ✓ Excel on Design Patterns and Best Practices, such as Clean Architecture, Domain-Driven Design (DDD), Event-Driven Design (EDD), SOLID principles, Dependency Injection, Test-Driven Development (TDD) and Behavior Driven Development (BDD);
- ✓ Extensive experience with popular JavaScript frameworks: Angular, React, jQuery and Bootstrap;
- ✓ Strong in Xamarin Forms and mobile development technologies, as well as Desktop Applications in WinForms, WPF and UWP;
- ✓ Expertise in GraphQL and REST/RESTful API development and integration;
- ✓ Experienced with Linux and Windows servers administration and setup;
- ✓ Skilled in Continuous Integration and Deployment in cloud-based systems;

### Soft Skills:

- ✓ Strong leadership abilities and adaptability in dynamic environments;
- ✓ Exceptional problem-solving and analytical skills;
- ✓ Excellent communication skills, both written and verbal;
- ✓ Dedication to staying current with the latest technologies and industry trends;

Throughout my career, I have demonstrated a proven track record in delivering agile, high-quality, scalable, and maintainable software solutions. I am passionate about leveraging my technical skills and soft skills to provide innovative solutions and drive success for clients. With a focus on continuous learning and growth, I am committed to staying at the forefront of the industry to deliver exceptional results.

## Experience



### Senior Back End Software Engineer / Architect

#### Frontier Airlines

Jul 2023 - Feb 2024 (8 months)

- Played a key role in the New Commercial Platform Middleware team, contributing to the team's success.
- Established expertise as the Subject Matter Expert in GraphQL and Hot Chocolate.
- Proposed and executed a solution that considerably expedited the development process, resulting in a minimum 6 month reduction in expensive development time.
- Acknowledged for high performance by the Scrum Master, driving 60% of the team's productivity.

- Architected, designed, and implemented software solutions in a Cloud Native Microservices Environment using Dotnet 7.
- Developed a Fusion GraphQL Gateway and multiple GraphQL API microservices using the Hot Chocolate SDK.
- Implemented Identity Server following OpenId Connect and OAuth 2.0 Specifications.
- Designed and executed advanced caching integrations through Dependency Inversion.
- Engineered complex, sophisticated and high-performing workarounds algorithms for addressing limitations in external services and frameworks.
- Implemented Open Telemetry collectors to enhance observability with Dynatrace.
- Deployed services on Microsoft's Azure Public Cloud, with Azure Container Apps (ACA).
- Authored Unit Tests, Integration Tests, and Gherkin Specflow feature tests using Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies to ensure software quality.

## **Founder / Principal Fullstack Software Engineer / Solutions Architect**

### **Tessarolli Solutions**

Jan 2011 - Jun 2023 (12 years 6 months)

- Spearheaded architectural design of Microservices systems, adhering to Domain-Driven Design (DDD) principles. As the lead Solutions Architect, I delivered modular, resilient, and high-performance systems optimized for scalability and flexibility. This achievement facilitated seamless adaptability and maintained loose coupling, meeting the demands of complex enterprise environments.
- Architected, Designed, and implemented a comprehensive proprietary SDK unifying Xamarin Forms and .NET Core API's, enhancing team productivity by 60% through streamlining front-end and back-end integrations in ERP systems design.
- Implemented and optimized data access layers using Entity Framework and utilized LINQ (Language-Integrated Query) for expressive and efficient querying, enhancing the overall performance and maintainability of database interactions in the projects.
- Engineered a Database Replication Algorithm that enabled near-real-time data synchronization across network nodes via Master-Slave replication, significantly reducing data latency.
- Authored a versatile Dapper ORM wrapper to improve data access efficiency, strengthening the database operations across various projects.
- Led the front-end development efforts employing Angular or React Frameworks, coupled with reliable ASP.NET MVC back-end RestFul APIs.
- Single handedly setup and managed hybrid IT infrastructure, including both on-premises and cloud-based Linux and Windows servers, optimizing for web, databases, e-mail, message brokers, caching, directory services and more.
- Mastered database administration and development across multiple SQL platforms including MySQL, PostgreSQL, Firebird, and MS SQL Server, and dived into NoSQL solutions like Azure CosmosDB and MongoDB.
- Led a wide portfolio of projects, including Windows Desktop/Store Applications, Web Sites and Web Apps, Mobile Apps, Cloud-Native solutions, and Command Line Interfaces.
- Experienced with GIT and TFS, as well as Azure DevOps and Jira.

## **Business Owner**

### **Ex Lan House**

Jan 2000 - Dec 2010 (11 years)

I have a proven track record of success as an entrepreneur, having owned and managed an Internet Cyber Café for a decade. My responsibilities included managing day-to-day operations, staff,

and customer service, business partnerships, as well as developing and implementing an ERP software system using Visual Basic 6 and later VB.Net to control usage and display real-time information. I also took charge of the company's finances and budget, and continuously sought ways to improve the café's performance and profitability. My technical skills in Visual Basic 6 and Visual Basic.Net (Vb.Net), software development, and IT management were key in the success of the café.

- Responsible for all the necessary administration for managing and running a company.
- Acted as a solo software developer for windows, focused on managing this business, controlling pcs usage time, finances, clients, and much more.
- Written in Visual Basic 6 and Visual Basic .Net (Vb.Net).
- Worked with Linux and Windows Clients.
- Provided Linux Server setup and maintenance.
- Responsible for Network Protocols/security.

The company was closed in 2010, due to new desktop's price drop, and the rise in the smartphone's availability

## Education



### **Unilins - Centro Universitário de Lins**

Bacharelado em Engenharia, Engenharia de Computação

Jan 2001 - Dec 2006

## Licenses & Certifications



### **Triplebyte Certified - Triplebyte**

U4AyU8n



### **English Speaking C1 - Emersion**

Issued Apr 2023 - Expires Aug 2023

## Skills

Solution Architecture • Dapr • dotnet • GraphQL • Distributed Systems • Software Design •  
Software Architecture • React.js • Angular • REST APIs

## Honors & Awards

### **Second in class - Unilins**

Dec 2006

Awarded the title of Second In Class