

# Felipe Jardim Grandi Cotti

## Senior Software Developer

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### SUMMARY

Developer with 7 years of experience and a large, varied track record with C#/.NET-based solutions in particular, ranging from API to cross-platform libraries, backend services, desktop applications using Avalonia and WPF, and full stack work with Angular 2+ and React. Worked with SQL databases, ORMs and integrations with external APIs. Curious, creative, flexible, collaborative, transparent, highly appreciative of feedback and with a keen eye for detail, actively improving current skill set.

### SKILLS

**Proficient:** C#, .NET, .NET Core, .NET Framework, ASP.NET, EF Core, Entity Framework, WPF, Avalonia, XAML, Clean Code, SOLID, MVVM, Git, Github, Gitlab, Bitbucket, Scrum, Agile

**Intermediate:** Golang, HTML, JavaScript, xUnit, Moq, Oracle PL/SQL, MS SQL Server, SQL, Design Patterns, Clean Architecture, Docker, Asterisk, NUnit, API, REST, Jira, Confluence, C++, JSON, LINQ

**Beginner:** CSS, TypeScript, Angular 2+, React, Swagger, OpenAPI, Mediatr, Selenium, MySQL, SQLite, MongoDB, Bash, Python, AWS, S3, SIP, VoIP, Liquibase, DDD

### PROFESSIONAL EXPERIENCE

#### Systems Developer

Encora, Belo Horizonte, BR – Remote

11/2022 to Present

#### Core Responsibilities:

- Led development of a custom Data Compliance C# .NET Avalonia desktop application, easy to install and use, reducing scan times on network drives by over 60% compared to the previous solution.
- Overhauled a custom SIP client from .NET Framework to a cross-platform .NET version, expanding deployment possibilities to Linux and MacOS and improving performance.
- Implemented a .NET solution for handling and deletion of over 10 million profiles in a complex SQL Server schema in a service heavily integrated with AWS, reducing database storage costs and strain.
- Created a cross-platform desktop system tray application using C#, .NET and Avalonia for an internal SIP client featuring an installer and updater, allowing for deployment regardless of the agent's OS.
- Developed unit tests using xUnit and Moq, drastically improving reliability and code coverage from below 20% to over 80%.
- Handled maintenance and development of new features on several .NET (Framework/Core) libraries and WPF applications.

**Key Technologies and Tools:** C#, .NET, .NET Core, .NET Framework, EF Core, Entity Framework, WPF, Avalonia, XAML, Clean Code, SOLID, MVVM, xUnit, Moq, MS SQL Server, SQL, Clean Architecture, AWS, Selenium, Bash, pupnet-deploy, WiX Toolset, AWS, S3, SIP, VoIP, Git, Scrum, Agile, JSON, LINQ

#### Mid-level Developer

Arbeit, Belo Horizonte, BR – Remote

05/2021 to 09/2022

#### Core Responsibilities:

- Reworked and extended Swagger/OpenAPI support on the existing C# ASP.NET Web APIs, improving developer and QA experiences and workflows by providing clear contracts.
- Projected and introduced API endpoints on different C# .NET projects, providing detailed documentation and expanding the application's capabilities.
- Contributed to refactoring multiple modules of a monolithic C++ solution into separate C++ and C# services, opening the path for cloud-based architecture options.
- Implemented a C# .NET webhook and API support for an external SMS dispatch solution, providing a new feature set for clients and expanding market reach for clients interested in sending text messages.
- Extended internal testing routines, including devising a series of Oracle PL/SQL database procedures to clean partial testing data, greatly expanding QA capabilities.

**Key Technologies and Tools:** C#, .NET, .NET Core, .NET Framework, EF Core, Entity Framework, WPF, XAML, Clean Code, SOLID, MVVM, xUnit, Moq, Oracle PL/SQL, SQL, Liquibase, Docker, Kubernetes, Asterisk, SIP, VoIP, API, REST, Swagger, OpenAPI, S3, Git, Scrum, Agile, JSON, LINQ

### Software Developer

Arbeit, Belo Horizonte, BR

05/2017 to 05/2021

#### Core Responsibilities:

- Introduced features and improvements to 3 C# .NET Framework WPF desktop applications and their C++ backends, alongside Oracle PL/SQL database updates, directly raising the value of the solutions.
- Developed Asterisk dialplans and performed research leading into the migration of its communication from socket-based AMI to REST-based ARI, allowing platform updates and new features.
- Defined multiple C# .NET API endpoints and their corresponding UIs using Angular 2+ and TypeScript, bringing value to customers migrating to the web-based platform.
- Designed a Python script that reported essential executive data weekly, from financial statistics to churn rate and information on relevant clients, providing critical data for the company to act on and improving client retention.

**Key Technologies and Tools:** C#, .NET, .NET Core, .NET Framework, EF Core, Entity Framework, WPF, XAML, Clean Code, SOLID, MVVM, Oracle PL/SQL, Liquibase, Asterisk, C++, SIP, VoIP, API, REST, Python, TypeScript, HTML, CSS, Angular 2+, Git, Scrum, Agile, JSON, LINQ

## EDUCATION

### Information Systems Bachelor (Pending completion)

PUC Minas, Minas Gerais, Brazil

09/2010 to 12/2029 (est.)

## LANGUAGES

**Portuguese:** Native

**English:** Fluent

## PROJECTS

- Created a guestbook suited for situations such as the one faced by engaged couples - who want public message storing and private reading, so their kin and loved ones can send their best wishes. It features a Github CI/CD pipeline and Docker amenities, an API and thorough documentation.

**Key Technologies and Tools:** C#, .NET, Clean Architecture, Clean Code, SOLID, xUnit, Moq, MongoDB, Docker, Github CI/CD, REST API best practices, JWT, Serilog, HTML, CSS, JS, React