

# BRUNO LOUREIRO

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## Summary

Software Engineer with experience designing and delivering enterprise-grade **microservices on ASP.NET Core**. Specializes in **Event-Driven Architecture (EDA)**, **Clean Architecture**, and **CQRS patterns to build scalable, maintainable** distributed systems. Experienced with **YARP API Gateway**, **JWT** and **ABAC-based authorization and Docker** containerization. Consistently delivers secure, production-ready backend solutions aligned with modern software engineering principles.

## Skills & Certifications

**Skills:** C# · .NET 8 · ASP.NET Core · Blazor · Entity Framework Core · DevExpress · MySQL · Redis · Docker · YARP · JWT/ABAC · Angular · CQRS · Azure · Terraform · GitHub Actions · AI-assisted development (Claude Code)

**Courses:** Pragmatic Clean Architecture — Milan Jovanović, Dometrain (2025)

## Work Experience

### Software Engineer, Trigénus Technologies

08/2025 -

#### Present

- Architected **Blazor WebAssembly** front-ends with **DevExpress 22.0+** components, delivering 100+ screens across enterprise modules and improving UI rendering performance for end-users.
- Implemented **ASP.NET Core REST APIs** following Clean Architecture principles with **JWT claims-based authentication**, standardizing authorization across distributed services and reducing unauthorized access exposure, covering 100+ endpoints.
- Designed scalable **MySQL** database schemas, covering 50+ tables, using **Entity Framework Core** Code-First migrations, maintaining data integrity and optimizing query performance under high-volume transactional load.
- Integrated internal business tools with 2 production **ERP systems** (PHC, Primavera) via automated data pipelines, eliminating manual data entry and achieving 100% compliance with legal reporting requirements.
- Managed production application deployments, across 5+ client deployments, on **Microsoft IIS**, improving release consistency and minimizing downtime across client environments.
- Contributed to peer code reviews and architectural design sessions, within a 5-person development team, enforcing **SOLID** principles and improving overall code quality and maintainability.

## Projects

### PERSONAL PROJECT | Enterprise Ticket Management

01/2026 - Present

- Architected a microservices-ready backend using .NET 8 and YARP API Gateway, implementing custom middleware for centralized JWT and ABAC (Attribute-Based Access Control), to enforce granular, service-level security.
- Deployed to **Azure** Container Apps using Docker containers, provisioned via **Terraform** (IaC) and automated through a **GitHub Actions CI/CD pipeline**, with a role-based Angular front-end and **Redis**-backed token revocation.

### PARTNERSHIP PROJECT | Recruitment Management System

01/2025 - 07/2025

- Delivered a production-ready recruitment platform for TRIGÉNIUS using Clean Architecture and the Controller-Service-Repository (CSR) pattern, producing a modular codebase that accelerated feature delivery cycles.
- Built a modular dynamic form engine with Entity Framework Core Code-First migrations, using the Bogus library for high-volume stress testing at 5,000+ records to validate data persistence under load.
- Implemented RBAC and a custom AuthenticationStateProvider in Blazor WebAssembly, enforcing persistent, secure user session management across the application.

## Education

### Bachelor's in Software Engineering, Polytechnic Institute of Leiria

09/2022 - 07/2025