

SOLTANI FEDI

Full Stack .NET Developer — Multi-tenant SaaS Architecture

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PROFILE

Computer engineer with over 3 years of experience in Full Stack .NET development, specialising in multi-tenant SaaS architecture with strong ownership of API design, security and engineering quality. Delivered across SaaS, ERP, multichannel ticketing, telecom and AutoCAD business plugins. Deep expertise in C#, .NET 6 to 10, Entity Framework Core, PostgreSQL and SQL Server, with Angular 18 on the front end. Hands-on with Clean Architecture, CQRS, tenant isolation, optimistic concurrency, JWT hardening, RBAC, observability and containerised deployment on Azure.

TECHNICAL SKILLS

Core stack: C#, .NET 6/7/8/9/10, ASP.NET Core, EF Core 10, TypeScript, Angular 18, RxJS

Architecture & patterns: Clean Architecture, CQRS, Custom Dispatcher, Application Services, Repository Pattern, Specification Pattern, Mapperly, FluentValidation, multi-tenant, OOP, layered architecture

Databases: PostgreSQL, SQL Server, T-SQL, optimistic concurrency (xmin), Global Query Filters, stored procedures, query optimisation and indexing

Security & APIs: ASP.NET Core Identity, JWT, refresh token rotation, reuse detection, session revocation, Identity role revalidation, RBAC, API navigation flags, CORS, magic link, REST, SignalR, Swagger/OpenAPI

Observability & testing: Serilog (structured JSON logs, CorrelationId), xUnit, Moq, FluentAssertions, Testcontainers, integration testing, Karma/Jasmine, Application & Infrastructure layer coverage

Cloud, containers & CI/CD: Docker, Azure App Service, Azure Container Registry (ACR), GitHub Actions, Azure DevOps, Git, GitLab, TeamCity, CI/CD pipelines

Tools & methods: Visual Studio, Rider, VS Code, Cursor, Postman, DBeaver, SSMS, pgAdmin, Agile Scrum, Kanban, Jira, Linear, code review, junior mentoring

Domain-specific: AutoCAD .NET API, desktop plugins, custom licensing platforms

Working knowledge: React, Next.js, Node.js, Blazor, Razor Pages, Dapper, SOAP, .NET Framework 4.8, NgRx, Neon, SCSS

PROFESSIONAL EXPERIENCE

Full Stack .NET Developer — TeamXtend (Permanent), Tunis

May 2026 – Present

Time & Performance — Multi-tenant SaaS platform for time tracking and performance management

- Identified a licensing compliance risk with MediatR and AutoMapper (dual-licensed since 2025) and led the migration to a custom OSS dispatcher and Application Services: 100+ CQRS handlers replaced, 9 mapping profiles moved to Mapperly, and a Read/Write Repository separation with the Specification pattern across 5 domain aggregates.
- Hardened the JWT lifecycle: atomic one-time refresh token rotation via compare-and-swap with reuse detection, revocation of every session on detected replay and on password change, and hot revalidation of Identity roles with token invalidation.
- Implemented end-to-end optimistic concurrency: PostgreSQL xmin as the EF Core token with conflicts surfaced as HTTP 409, the token echoed from Angular detail screens and edit modals, and real-time Editing Presence over SignalR to warn before a collision happens.
- Built the multi-tenant data isolation layer (EF Core Global Query Filters, per-tenant JWT claims) and hardened multi-role RBAC: entity-level permissions and navigation flags (canNavigate / canManage) exposed by the API and enforced front and back.
- Standardised inbound API contracts (*Request) and lightweight mutation DTOs, with a refetch-GET pattern to reduce over-fetching; a contract audit across 4 modules delivered 11+ fixes, complemented on the frontend by lazy-loaded dropdowns and RxJS caching.
- Centralised application logging with Serilog on the ASP.NET Core host (.NET 10): structured JSON logs, multi-tenant enrichment (TenantId, UserId, CorrelationId, X-Correlation-ID) and configuration-driven setup via appsettings.
- Strengthened test coverage across the stack: PostgreSQL integration tests under Testcontainers (409 conflicts, tenant isolation), unit tests for API controllers, Application and Infrastructure layers (xUnit, Moq, FluentAssertions) and Angular (Karma/Jasmine), wired into GitHub Actions quality gates.
- Delivered and operated the multi-tenant SaaS API packaged as a Docker container on Azure App Service via Azure Container Registry (Dev and Staging environments).

Stack: .NET 10, ASP.NET Core, C#, Angular 18, TypeScript, RxJS, Clean Architecture, CQRS, Custom Dispatcher, Application Services, Specification, Mapperly, EF Core 10, PostgreSQL, ASP.NET Core Identity, JWT (rotation, reuse detection), RBAC, SignalR, Serilog, xUnit, Moq, Testcontainers, Karma/Jasmine, Docker, Azure App Service, ACR, GitHub Actions, Scrum

Full Stack .NET Developer (Freelance) — ITEC, Tunis

January 2026 – April 2026

AutoCAD plugin for hydraulic structures design (road civil engineering)

- Developed a .NET 8 AutoCAD plugin automating the creation of culverts and technical sheets from an alignment and a surface, including geometric and hydraulic calculations and 3D model generation.
- Integrated with HY-8 (FHWA) software via automated export of calculated data to verify hydraulic results.

Custom licensing platform

- Built an admin interface in ASP.NET Razor Pages and a REST verification API with hardware identification (coordinates, MAC address, Windows info).
- Implemented a heartbeat mechanism calling the platform at regular intervals to continuously authenticate the client and block access if the licence is invalid.

Stack: .NET 8, C#, AutoCAD .NET API, ASP.NET Core Web API, Razor Pages, Dapper, SQL Server, REST API, HY-8

Full Stack .NET Developer (Freelance) — Maghreb Medical Maintenance, Tunis

June 2025 – November 2025

GSL-MMM — ERP for delivery and customer management

- Developed an invoice discharge management module, improving financial tracking of deliveries.
- Built the inter-warehouse delivery module (planning, tracking and traceability of stock transfers between sites) and a customer return template, alongside bug fixes across customer management workflows.

Stack: .NET 5, C#, Razor Views, Entity Framework, SQL Server, T-SQL, JavaScript, jQuery, Bootstrap, Rotativa

Full Stack .NET Core Developer — Access International (Consultant, Quebec Ministry of Transport), Tunis

August 2024 – June 2025

APVHN — Permit management application for oversized convoys

- Designed the application architecture and developed core business modules (expertise, vehicles, permit generation) covering the project's critical functional requirements.
- Managed user authentication and access controls, and integrated external services to automate data exchanges.
- Progressive migration from .NET 6 to .NET 8 across the whole solution, and implemented unit tests with xUnit across the core business modules.

Studio 44 — Pilates studio management application

- Developed key features (classes, subscriptions, registrations) and led a UX/UI redesign of the sign-up flow to reduce drop-off.

Stack: .NET 6/8, C#, Entity Framework, Razor Pages, REST API, AJAX, SQL Server, xUnit, Azure DevOps, Git, Scrum, Kanban

Full Stack .NET Developer — IT Serve (External Consultant at Tunisie Telecom), Tunis

January 2024 – July 2024

Workflow Backbone — National-scale internet subscription management platform

- Identified and resolved performance bottlenecks through SQL profiling and execution plan analysis, reducing load times on the most heavily used screens.
- Integrated third-party web services (REST, SOAP) to enrich request qualification and acceptance features.
- Managed and improved stored procedures on SQL Server and PostgreSQL.

Stack: .NET Standard, Web Forms, SOAP, REST API, SQL Server, PostgreSQL, stored procedures, Git

Full Stack .NET Developer — SimplyDesk, Tunis

January 2023 – January 2024

SimplyDesk — Multichannel ticketing software

- Developed new features (IT asset management) and automated business workflows (prioritisation, SLA, notifications).
- Improved performance via caching and SQL query optimisation, contributed to the module migration to .NET Core and optimised CI/CD pipelines on TeamCity.
- Delivered in Agile Scrum, mentoring junior developers through code reviews and pair programming sessions.

Stack: .NET Framework 4.8, .NET Core, C#, EF, TypeScript, React, SQL Server, PostgreSQL, GitLab, Jira, TeamCity, Scrum

PERSONAL PROJECTS

SaaS platform for website building and commercial management

- Deployed to production for a real client (Déménagement Tunisie): an editable public website and a business back-office used daily.
- Elementor-like website builder with visual editing, complemented by modules for quotes and invoices, appointments, partner files, a client area, an agent area and internal messaging.
- Decoupled architecture: a headless Payload CMS backend exposing REST APIs to the Next.js frontend, passwordless magic-link authentication and serverless PostgreSQL (Neon).

Stack: Next.js, TypeScript, Payload CMS, Node.js, Neon (serverless PostgreSQL), REST API, magic link authentication

EDUCATION

National Engineering Degree in Computer Science — ESPRIT, Tunis

Graduated 2022

Baccalaureate — Mathematical Sciences — Lycée Ibn Khaldoun, Siliana

Graduated 2017

LANGUAGES

Arabic: Native • French: Professional • English: Professional (B2)