ZAKHROUF NOUREDDINE
Desktop Application Developer — WPF & Avalonia UI

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Profile

Practical and motivated desktop application developer , building maintainable, user friendly desktop software. Strong in WPF (XAML/MVVM) and cross-platform UI using Avalonia. Skilled at designing MVVM architectures, integrating ASP.NET Core backends, and delivering polished UX with animations and custom window chrome.

Core Competencies

- Programming Languages: C#
- Frameworks & Platforms: .NET 6/7/8, ASP.NET Core
- Desktop UI Frameworks: WPF, Avalonia UI
- UI Markup & Patterns: XAML, MVVM Pattern, CommunityToolkit.MVVM
- Data Access & ORM: Entity Framework Core, LINQ, Repository & Unit of Work Patterns
- Databases: SQL Server, SQLite
- Tools & Practices: Git, Visual Studio, Debugging, Performance Tuning, Clean Architecture, Mapster, QuestPDF, RDLC Reports

Selected Desktop Development Projects

- **MNT Plus — Minimal CMMS (Computerized Maintenance Management System)** · *2025*
  Lightweight WPF desktop application focused on core maintenance workflows for small & medium businesses, streamlining asset tracking and work orders.
  Tech stack: WPF · C# · .NET 8 · MVVM (CommunityToolkit) · EF Core · SQLite .
- **Hospital Pharmacy Drug Store (EPSP)** · *2024*
  Engineered a WPF desktop application for managing medicine inventory and movements in an EPSP hospital pharmacy. Developed and populated a comprehensive national medicine database, cataloging 5,000+ pharmaceutical products available in Algeria to ensure accurate inventory tracking and reduce errors.
  Tech stack: WPF · C# · .NET 8 · MVVM (CommunityToolkit) · EF Core · SQLite · RDLC · QuestPDF .
- **Hospital Patient & Prescription Management (EPSP)** · *2022*
  WPF desktop application for patient records, prescriptions and lab requests for an EPSP hospital,l, improving data accessibility for medical staff.
  Tech stack: WPF · C# · .NET 7 · MVVM (CommunityToolkit) · EF Core · SQL Server · RDLC Reports .

Education

Master's Degree in Information Systems and Decision Making
Amar Telidji University – Laghouat | [2024]