

Reda Tantawy

Software Systems Developer | Business Applications Developer | Civil Engineer

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PROFESSIONAL SUMMARY

Software Systems Developer with a Bachelor of Civil Engineering and hands-on experience designing and developing business applications, ERP systems, database-driven web applications, and business automation solutions.

Skilled in translating real business workflows into maintainable software, relational databases, role-based access, reports, dashboards, barcode workflows, document printing, and responsive interfaces.

Experienced across construction, real estate, legal offices, sales and purchasing, inventory, manufacturing, pharmacy, e-commerce, and project management.

PROFESSIONAL EXPERIENCE

Independent Software Systems Developer | 2024 – Present

- Analyze business requirements and operational workflows and translate them into software features, database structures, validation rules, reports, and user interfaces.
- Design and develop business applications and ERP systems using C#, ASP.NET Core MVC, Entity Framework Core, SQL Server, JavaScript, AJAX, Bootstrap, and Excel VBA.
- Develop sales, purchasing, inventory, POS, accounting, customer, supplier, branch, store, user, role, permission, reporting, and document-printing modules.
- Design relational databases, entity relationships, queries, validation rules, reports, and data-driven business workflows.
- Implement authentication, authorization, role-based permissions, reusable services, barcode workflows, and responsive dashboards.
- Develop Excel/VBA automation solutions for accounting, sales, inventory, invoicing, manufacturing, project management, and reporting.
- Prepare applications for deployment and hosting and troubleshoot database, runtime, deployment, integration, and maintenance issues.

TECHNICAL SKILLS

Programming: C# • SQL • JavaScript • HTML5 • CSS3 • VBA • JSON • REST APIs

.NET & Backend: .NET 10 • ASP.NET Core • MVC • Web API • Entity Framework Core • LINQ • Dependency Injection • Authentication • Authorization • Validation

Databases: SQL Server • Database Design • Relational Modeling • Entity Relationships • Stored Procedures • SQL Queries • Indexes • Reporting • Performance Optimization

Frontend: Bootstrap 5 • AJAX • Fetch API • Responsive Design • RTL Interfaces • Modern UI • DataTables • Form Validation • Interactive Dashboards

Tools & Platforms: Visual Studio • Visual Studio Code • Git • GitHub • Postman • SQL Server Management Studio • Microsoft Excel • Excel VBA • Docker • IIS • SmarterASP.NET

Business & Engineering: Requirements Analysis • Business Process Analysis • ERP Systems • Workflow Design • Project Management • Reporting & Dashboards • Problem Solving • Technical Documentation

SELECTED PROJECTS

1. Construction & Project Management SystemTechnologies: C# • ASP.NET Core MVC • EF Core • SQL ServerConstruction projects, phases, tasks, resources, costs, progress, documents, reports, and operational follow-up.
2. Law Office Management SystemTechnologies: ASP.NET Core MVC • EF Core • SQL ServerClients, cases, files, hearings, appointments, documents, follow-up, and administrative reporting.
3. Real Estate Office Management SystemTechnologies: ASP.NET Core MVC • EF Core • SQL ServerProperties, units, clients, owners, contracts, reservations, payments, follow-up, and reports.
4. Sales, Purchasing & Inventory Management SystemTechnologies: C# • ASP.NET Core MVC • EF Core • SQL Server • JavaScriptSales, purchasing, inventory, customers, suppliers, products, stock transactions, invoices, barcode workflows, and reporting.
5. Manufacturing Management SystemTechnologies: C# • ASP.NET Core • SQL Server • Excel VBAProducts, raw materials, production operations, inventory, material movements, monitoring, and reports.
6. Pharmacy Management SystemTechnologies: ASP.NET Core MVC • EF Core • SQL ServerMulti-branch pharmacy operations, products, barcode support, purchasing, suppliers, credit sales, installments, cosmetics, and tax calculations.
7. Hayah Karima Project Management & Monitoring SystemTechnologies: ASP.NET Core MVC • EF Core • SQL ServerProjects, locations, sectors, project types, progress, obstacles, images, role-based dashboards, and reporting.
8. BregoTech Online StoreTechnologies: ASP.NET Core MVC • SQL Server • BootstrapDigital products, catalogs, product details, packages, media, purchasing workflows, and responsive UI.
9. Personal Portfolio WebsiteTechnologies: ASP.NET Core MVC • CSS • JavaScriptDynamic portfolio presenting projects, skills, experience, software architecture, contact channels, and CV.
10. Personal Professional WebsiteTechnologies: ASP.NET Core MVC • Bootstrap • JavaScript • CSSResponsive website for personal profile, services, projects, professional information, and contact channels.
11. E-Commerce StoreTechnologies: ASP.NET Core MVC • SQL Server • Bootstrap • JavaScriptProducts, categories, product details, shopping cart, orders, and responsive shopping experience.
12. Excel Business Automation SystemsTechnologies: Microsoft Excel • VBAAccounting, sales, inventory, invoicing, manufacturing, project management, and reporting automation.

EDUCATION

SELF-DIRECTED TECHNICAL LEARNING

Continuous self-directed technical learning through online resources, official documentation, video-based learning, practical experimentation, and project implementation.

Focus areas include C#, ASP.NET Core, Entity Framework Core, SQL Server, JavaScript, web architecture, Excel VBA, APIs, authentication, authorization, deployment, and business-system design.

CORE PROFESSIONAL CAPABILITIES

Requirements Analysis • Business Process Mapping • Software Architecture • Database Design • C# / ASP.NET Core Backend • REST APIs • Authentication & Authorization • Responsive Web Development • Reports & Dashboards • Barcode & POS Workflows • Excel VBA Automation • Deployment & Troubleshooting • Git & GitHub

PROFESSIONAL LINKS

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