

ALAA MAHMOUD

Senior Full Stack Developer

📍 Giza, Egypt | ✉ en.alaamahmoud@gmail.com | ☎ +20 112 498 0172

🔗 [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Senior Full Stack Developer with **7+ years** of proven expertise in building enterprise-level applications and scalable web solutions. Specialized in **Angular**, **ASP.NET Core**, and **microservices architecture**. Successfully delivered **20+ production applications** with focus on clean architecture, performance optimization, and maintainable code. Experienced in leading development teams and implementing DevOps practices.

Key Achievements:

- 🚀 Migrated legacy ASP.NET Web Forms to modern ASP.NET Core, improving performance by 40%
 - 📊 Developed 20+ complex invoice management screens with real-time calculations
 - 🏗️ Architected microservices solutions using gRPC and RabbitMQ for high-traffic applications
 - 🔒 Implemented enterprise-grade authentication systems with Angular Guards and .NET Identity
-

TECHNICAL EXPERTISE

Frontend Development

- 🔧 **Frameworks:** Angular 12-17, TypeScript, RxJS, NgRx (State Management)
- 🎨 **UI/UX:** Angular Material, Bootstrap, HTML5, CSS3, Responsive Design
- 📜 **Legacy:** JavaScript/ES6+, jQuery

Backend Development

- 🔧 **Frameworks:** .NET 6+/8, ASP.NET Core, ASP.NET MVC, Web API
- 📚 **Languages:** C#, Advanced OOP Concepts
- 🏗️ **Architecture:** Microservices, Clean Architecture, CQRS Pattern
- 📬 **Messaging:** gRPC, RabbitMQ, SignalR

Database & DevOps

- 🗄️ **Databases:** SQL Server, PostgreSQL, Entity Framework Core

- **DevOps:** Docker, GitLab CI/CD, Azure DevOps
- **Tools:** Git, Postman, Swagger, Visual Studio, VS Code

Additional Skills






- **Validation:** FluentValidation, Custom Validators
 - **Reporting:** ReportViewer, PDF Generation
 - **Testing:** Unit Testing, Integration Testing
 - **APIs:** RESTful Services, Google Maps API
-

PROFESSIONAL EXPERIENCE

Senior Full Stack Developer | Ultimate Solution, Giza

Aug 2023 – Present

Leading enterprise application development with focus on scalability and performance:

-  **Invoice Management System:** Developed 20+ sophisticated invoice screens using **Angular 17** and **.NET 8**, integrating Angular Material Tables with real-time calculations via RxJS
-  **Backend Architecture:** Built robust APIs with reusable DTOs, comprehensive validation logic using FluentValidation, and audit middleware for compliance tracking
-  **Security Implementation:** Designed and implemented authentication modules with Angular Guards and .NET 7 Identity, ensuring secure access control
-  **Database Optimization:** Created complex purchase return processes using SQL Server stored procedures with comprehensive audit trails
-  **Component Library:** Developed shared Angular UI components for invoices, forms, and layouts, improving development efficiency by 30%





Key Projects:

- **Sakeny Real Estate Portal:** Angular 14 | TypeScript | Google Maps API | .NET 6 Web API | PostgreSQL (Multi-tenant architecture)
- **Hotel Booking System:** Angular Material UI | .NET Core Microservices | Real-time booking management

Junior Full Stack Developer | Impress Digital Solution, Giza

Feb 2020 – Mar 2021





Modernization and feature development specialist:

-  **Legacy Migration:** Successfully migrated Sharjah Investors Center platform from ASP.NET Web Forms to ASP.NET Core, improving maintainability and performance
-  **Reporting Solutions:** Designed and generated dynamic reports and invoices using ReportViewer with custom business logic
-  **Frontend Development:** Built responsive, user-friendly interfaces using HTML5, CSS3, JavaScript, and jQuery
-  **API Development:** Implemented robust back-end functionality using C# and .NET Core APIs with proper error handling

Windows Forms Developer Intern | 4Soft, Giza

Sep 2019 – Apr 2020

Desktop application development and database integration:

-  **Desktop Applications:** Developed Windows Forms applications using C# with focus on user experience
-  **UI Design:** Created intuitive UI components and seamless database connectivity
-  **CRUD Operations:** Built comprehensive CRUD operations with custom validation logic
-  **Quality Assurance:** Collaborated with senior developers on debugging, testing, and feature enhancements

EDUCATION & CERTIFICATIONS

Education

- **Bachelor of Science in Computer Science** | Higher Institute of Computer Science (2012–2017)

Professional Certifications

- **Angular Certification** | Sharp Academy
- **Full Stack Developer Certification** | Sharp Academy

Continuous Learning

- Advanced Angular Patterns and Architecture
- .NET Core Performance Optimization
- Microservices Design Patterns

- Cloud Computing Fundamentals
-

KEY PROJECTS PORTFOLIO

Enterprise Invoice Management System

Technologies: Angular 17, .NET 8, SQL Server, Angular Material

Role: Lead Developer

Impact: Streamlined invoice processing for 500+ daily transactions

Sakeny Real Estate Portal

Technologies: Angular 14, .NET 6, PostgreSQL, Google Maps API

Role: Full Stack Developer

Impact: Multi-tenant platform serving 10,000+ property listings

Hotel Booking Microservices

Technologies: Angular Material, .NET Core, RabbitMQ, Docker

Role: Senior Developer

Impact: Scalable booking system handling 1,000+ concurrent users

PROFESSIONAL HIGHLIGHTS

- ✓ **Enterprise Experience:** 7+ years in building large-scale applications
 - ✓ **Modern Stack:** Expertise in latest Angular and .NET technologies
 - ✓ **Architecture:** Strong background in microservices and clean architecture
 - ✓ **Performance:** Proven track record of optimizing application performance
 - ✓ **Leadership:** Experience mentoring junior developers and code reviews
 - ✓ **Problem Solving:** Strong analytical skills and debugging expertise
-

LANGUAGES

- **Arabic:** Native
- **English:** Professional Working Proficiency