

30<sup>th</sup> September 1992

Dutch Nationality  
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**Amr Madkour**

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## Professional Summary

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Senior Software Engineer with strong experience in designing, developing, and maintaining scalable Software solutions using C# and .NET. Proven background in backend development, APIs, microservices, frontend technologies, and database-driven solutions across multiple business domains. Experienced in modernizing legacy systems, delivering new features, and working in Agile environments from concept to production. Problem-solving mindset with growing expertise in AI-assisted engineering workflows, leveraging modern AI tools to accelerate development, improving code quality, and optimizing delivery.

## Employment

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**Senior Software Developer**                      **Metrixlab(Toluna) Rotterdam, Netherlands**                      **July 2023 - Now**

**Survey Platform Modernization (TIQM – Toluna Insight Questionnaire Manager Migration)**

### Backend

- Worked as part of a team of 3 senior developers and 1 team lead to migrating legacy **TIQM (Toluna Insight Questionnaire Manager)** services from MVC architecture to modern microservice architecture.
- Developed and maintained backend services responsible for survey creation, update, duplication, retrieval, and validation workflows.
- Contributed to core microservices including **Cambridge** (orchestration), **Lexicon** (solution management), and **Thesaurus** (user metadata storage), etc...
- Supported integrations with **TEF (Translation & Authentication Framework)**, **Chorus**, **TQS**, and **AI Persona** services.
- Worked with serverless cloud infrastructure using **AWS Lambda**, **API Gateway**, CI/CD pipelines, and monitoring

### Frontend

- Worked closely with UI/UX team and stakeholders to deliver the new **AdReview** custom survey flow without impacting existing legacy survey solutions.
- Implemented new survey UI components and enhanced **TemplateWizard** using **React**, **TypeScript**, and the new design system.
- Improved the maintainability and user experience of survey creation workflows.

**Technicality:** (.NET 8, C#, Microservices, React, TypeScript, AWS Lambda, API Gateway, CloudWatch, S3, Secrets Manager, Terraform, Bitbucket, Jira, Swagger, SonarQube and Datadog)

**Software Developer**                                      **Metrixlab Rotterdam, Netherlands**                                      **Nov 2020 – July 2023**

**Dashboard Platform (Admin – Scorecard – Visual Library)**

- Supported three connected platforms used by stakeholders to manage client projects and related dashboard metadata, including KPIs, ads, surveys, and XLS/XLSX data.
- Developed features for uploading scorecards through multiple workflows and displaying project and scorecard information in the Visual Library UI for clients.

- Maintained, updated, and delivered new features as part of the team's ongoing platform enhancements.

#### Consumer Platform

- Built a new event-consumption platform from scratch to process events coming from the DMP side through Kafka.
- Consumed events stored in AKHQ, saved the processed data, and displayed it in the dashboard platform.
- Contributed to backend development, testing, and service reliability across the full event-processing pipeline.

**Technicality:** (.NET 4, REST API, MVC, .NET Core Web API, Knockout.js, SQL Server, Entity Framework, Kafka, AKHQ, TDD testing, Azure DevOps)

### Software Engineer

ICT Group N.V. Eindhoven, Netherlands

Sep 2018 – Sep 2020

#### Meditop Medical Application

- Developed a medical system used to manage patient information, examinations, appointments, image snapshots, and communication with external medical devices through serial communication.
- Contributed to migrating the legacy application from VB6 to C#/.NET to improve maintainability and modernize the platform.
- Built REST APIs for communication with the application database and integrated with **Leadtools** imaging solutions and **HL7** healthcare messaging standards.
- Worked in an Agile development environment delivering enhancements and modernization tasks.

**Technicality:** (.NET, C#, REST API, MVVM Architecture, SQL Server, Entity Framework, HL7, Serial Communication, Leadtools)

#### Mixed Reality

- Developed POC that listened to user speech questions and generated virtual text-based responses.
- Used **Microsoft HoloLens** mixed reality headsets to visualize and preview responses in an immersive environment.
- Built the bot application, deployed it to **Azure Bot Service**, and created **Unity** scenes for the mixed reality experience.

**Technicality:** (ASP.NET Core, Azure Bot Service, Unity, Microsoft HoloLens, Speech Integration)

#### Solid Server

- Developed POC for a decentralized data platform based on **Linked Data** principles.
- Applied **W3C** standards and **Turtle syntax** for semantic data representation and interoperability.
- Explored modern approaches for distributed and connected data management.

**Technicality:** (C#, Linked Data, W3C Standards, Turtle Syntax)

### Software Engineer

Talabat Cairo, Egypt

Mar 2018 - Jul 2018

#### Talabat Website

- Contributed to systems supporting **Talabat**, a leading food delivery company in the Gulf region and part of **Delivery Hero**.
- Maintained restaurant menu structures and order-posting workflows to ensure smooth integration with partner restaurant systems.
- Processed client menu data received in **XML** or **JSON** formats, deserialized it into internal Talabat objects, and transformed it into standardized JSON structures compatible with platform requirements.
- Built generic and reusable integration models to support multiple restaurant clients with different data formats and menu structures.
- Developed order-posting flows that retrieved orders from the Talabat database, serialized them into XML or JSON, and sent them to external client systems.
- Helped improve integration reliability, scalability, and compatibility across multiple partners.

**Technicality:** (ASP.NET Core API, SQL Server, LINQ, XML, JSON, Postman, TFS)

## .NET Developer

Nahdet Misr Alexandria, Egypt

May 2016 - Feb 2018

### Internal Applications

- Maintained, enhanced, and delivered new features for the company's internal business systems.
- Supported a suite of 5 core applications covering **HR, Payroll, Medical, Attendance, and Construction operations**.
- Worked on both web and desktop applications to improve functionality, stability, and day-to-day business processes.
- Contributed to bug fixing, performance improvements, and ongoing system support.

**Technicality:** (ASP.NET Web Forms, Windows Forms, SQL Server, ADO.NET)

## .NET Developer

Smart Innovation Cairo, Egypt

Mar 2015 - Apr 2016

- Developed multiple websites and web applications across various business domains and industries.
- Participated in full development lifecycle including requirements gathering, implementation, maintenance, and support.

**Technicality:** (ASP.NET Web Forms, Windows Forms, SQL Server, ADO.NET)

## Education

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BSc.in Commerce MIS Major.

University of Alexandria

2009 – 2013

**GPA:** Good (75.40%)

### Major Courses

Main coursework focused on the **Management Information Systems** field, including:  
System Analysis, Web Design, Database Design, Advanced Database Systems, Programming Languages.

## Skills

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### Backend Development

- C#, Python, .NET, ASP.NET Core, ASP.NET MVC, ASP.NET Web Forms, Web API
- Entity Framework, LINQ, ADO.NET, REST APIs
- Windows Forms, WPF, MVVM

### Frontend Development

- JavaScript, TypeScript, React, Angular
- HTML5, CSS3, Bootstrap, jQuery, AJAX, JSON, XML

### Databases

- SQL, SQL Server, Database Design, ERD

### Cloud & DevOps

- Azure, AWS (Lambda, API Gateway, S3, CloudWatch, Secrets Manager)
- Terraform, CI/CD Pipelines

### Architecture & Engineering Practices

- OOP, SOLID Principles, Design Patterns, Clean Architecture, Microservices, Service Oriented Architecture
- Unit Testing, TDD, BDD, Agile/Scrum

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### Tools & Collaboration

- Git, Bitbucket, TFS, Jira, Postman, Swagger, SonarQube, Datadog, Visual Studio, VS Code

### AI & Developer Productivity

- AI-Assisted Development, Prompt Engineering, AI Code Agents, LLM-Based Brainstorming and Research, GitHub Copilot, Claude Code

## Languages

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- Arabic – Native
- English - Professional
- Dutch - A2