

Amr Madkour

Schiedam, Nederland | +31620970164 | mis.madkor14@gmail.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

Senior .NET Software Engineer with 10+ years of experience building scalable backend systems, APIs, and microservices across different business domains. I have a solid background in Clean Architecture, distributed systems, and cloud-native delivery on AWS, and I'm comfortable working across the full stack with React and TypeScript when needed. I'm used to working with global stakeholders at different levels and taking full ownership of what I build, from initial design through deployment and monitoring. On top of that, I actively use AI in my day-to-day engineering work, for things like code generation, pair-review, and problem-solving, which helps me move faster and write better code.

Employment

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

Survey Platform Modernization

Backend

- Contributed as one of four senior engineers to migrate a global survey platform (millions of users) from legacy MVC to microservices architecture using Clean Architecture principles, applying distributed systems design and scalability patterns within a cross-functional team of 10.
- Developed and maintained backend services covering the full survey lifecycle including creation, duplication, retrieval, and validation.
- Built and maintained core microservices handling orchestration, solution management, and user metadata storage.
- Integrated with internal translation, authentication, and AI persona services across the platform.
- Owned end-to-end deployment and monitoring using AWS Lambda, API Gateway, and CI/CD pipelines.

Frontend

- Delivered a new custom survey flow in collaboration with the UI/UX team, without impacting existing legacy solutions.
- Implemented new survey UI components and enhanced the template wizard using React, TypeScript, and the new design system.
- Improved code maintainability and reduced page load times by 60%+ through caching strategies, server-side optimizations, and targeted refactoring across survey creation workflows.

Tech stack: (.NET 8, C#, Microservices, React, TypeScript, AWS Lambda, API Gateway, CloudWatch, S3, Secrets Manager, Redis, 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 global stakeholders to manage client projects, dashboard metadata, KPIs, ads, surveys, and XLS/XLSX data uploads.
- Developed scorecard upload workflows and Visual Library UI features, giving clients a cleaner way to view and manage project and scorecard data across accounts.

Consumer Platform

- Built a new event-consumption platform from scratch using Kafka to process, store, and display hundreds of events from the DMP side on the dashboard, supporting real-time data availability for dozens of active client accounts.
- Owned the full backend pipeline from event consumption via AKHQ through data processing, storage, and display, covering development, testing, and service reliability end to end.

Tech stack: (.NET 4, REST API, MVC, .NET Core Web API, Knockout.js, SQL Server 2016+, Entity Framework, Kafka, AKHQ, TDD testing, Azure DevOps, event driven architecture).

Software Engineer **ICT Group N.V. Eindhoven, Netherlands** **Sep 2018 – Sep 2020**

Meditop Medical Application

- Built a medical system to manage patient records, examinations, appointments, and communication with external medical devices via serial communication.
- Built REST APIs for database communication and integrated with Leadtools imaging and HL7 healthcare messaging standards, enabling seamless data exchange across 3 external medical device types.

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

Software Engineer

Talabat Cairo, Egypt

Mar 2018 - Aug 2018

Talabat Website

- Contributed to backend systems for a leading Gulf food delivery platform, maintaining restaurant menu structures and order-posting workflows across multiple clients.
- Built reusable integration models supporting different data formats and developed order-posting flows that serialized and delivered orders to external client systems.

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

.NET Developer

Nahdet Misr Alexandria, Egypt

May 2016 - Feb 2018

- Maintained and enhanced internal business systems covering HR, payroll, medical, and attendance, working across web and desktop applications.

Tech stack: (ASP.NET Web Forms, Windows Forms, SQL Server, ADO.NET)

.NET Developer

Smart Innovation Cairo, Egypt

Mar 2015 - Apr 2016

- Developed websites and web applications across multiple business domains, participating in the full development lifecycle.

Tech stack: (ASP.NET Web Forms, Windows Forms, SQL Server, ADO.NET)

Education

BSc.in Commerce MIS Major

University of Alexandria

2009 – 2013

Skills

Backend Development

C#, .NET 8, ASP.NET Core, ASP.NET MVC, Web API, Entity Framework, LINQ, REST APIs, MVVM.

Frontend Development

JavaScript, TypeScript, React, HTML5, CSS3, Bootstrap, JSON, XML.

Databases

SQL, SQL Server 2016+, Redis, Database Design, ERD

Cloud & DevOps

Azure DevOps, AWS (Lambda, API Gateway, S3, CloudWatch, Secrets Manager), Terraform, CI/CD Pipelines, Docker, Kubernetes.

Architecture & Engineering Practices

OOP, SOLID Principles, Design Patterns, Clean Architecture, Microservices, Distributed Systems, System Design, Scalability, Service Oriented Architecture, Unit Testing, TDD, BDD, Agile/Scrum.

Tools & Collaboration

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

AI & Developer Productivity

GitHub Copilot, Claude Code, Prompt Engineering, LLM-assisted code generation, AI code review workflows.

Languages

Arabic - Native, English - Professional, Dutch - Currently learning