

MOHAMED GAMAL SEDEEK

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Portfolio: <https://mgsm20101.github.io/portfolio/>

Professional Summary

Senior .NET Developer & Data Engineer with 10+ years of experience delivering scalable, high-performance enterprise systems across governmental and large organizations. Specialized in .NET Core backend development, API and microservices architecture, and data engineering using C#, SQL Server, SSIS, Kafka, and PostgreSQL. Proven ability to integrate legacy and modern systems, build real-time data pipelines, and optimize performance through DevOps and containerization (Docker, Kubernetes, CI/CD). Recognized for technical leadership, Agile delivery, and measurable business impact.

Work Experience

3i-Vision — Senior .NET Developer | Feb 2025 – Present

- Working on integration between WPF desktop applications and web-based systems.
- Developing and maintaining backend solutions using .NET Core and .NET Framework 4.8.
- Designing and implementing Web APIs for secure and efficient data exchange.
- Collaborating on system architecture and web-service integration with existing platforms.
- Optimizing SQL Server performance and managing stored procedures for high-volume data.
- Supporting deployment, debugging, and enhancement of client-facing modules.

JIC — Senior .NET Developer & Data Engineer | 2013 – 2025

Key Responsibilities (2013 – 2025)

- Designed end-to-end enterprise systems from requirements to deployment.
- Built data pipelines and ETL workflows integrating court systems into centralized databases.
- Developed APIs and microservices for the Ministry of Justice portal.
- Implemented real-time case-tracking and reporting functionality.
- Optimized SQL Server schemas, indexing, and queries for scalability.
- Led Agile sprints, mentored junior engineers, and ensured continuous delivery.
- Gathered requirements and delivered maintainable .NET applications.
- Designed relational database structures and enhanced data performance.
- Conducted code reviews, debugging, and unit testing.
- Provided post-implementation support and documentation.

Key Projects & Achievements:

- **Courts G2G Integration Service:** Designed a Service-Oriented Architecture (SOA) using WCF to unify data formats across heterogeneous systems, ensuring real-time synchronization.
 - **Data Warehouse & ETL System:** Engineered SSIS-based ETL pipelines to aggregate data into a centralized warehouse, enabling Power BI dashboards that reduced manual reporting by 50%.
 - **MOJ Complaints Management System:** Developed a centralized ASP.NET Core web application, automating workflows which reduced manual processing by 45%.
 - **Judicial Portal:** Created automated data collection dashboards that consolidated nationwide statistics and ensured high availability through failover designs.
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Selected Projects

SPARROW-INN Cloud Hotel Management System — Developer

Developing a multi-tenant SaaS solution using ASP.NET MVC and SQL Server 2016, ensuring secure tenant isolation.

Implementing dynamic pricing, reservation, and billing modules with integrated reporting features. •

Deploying in cloud environments with automated scaling and load balancing.

Technical Practices & DevOps Projects

- Designing high-availability Kubernetes clusters with Helm, Nginx Ingress, Prometheus, and Grafana monitoring.
 - Building real-time CDC pipelines (PostgreSQL → MongoDB) using Debezium + Kafka, processing 10 K records/min with Python consumers.
 - Creating distributed ETL solutions (.NET Core + Dapper) improving search speed by 300%.
 - Developing event-driven microservices handling 5 K messages/sec via Kafka and .NET 6, containerizing with Docker.
 - Configuring NGINX Ingress with Canary Deployments, TLS termination, and Cert-Manager automation.
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Career Skills

- **.NET Development & Architecture:** Designing and maintaining enterprise-grade applications using .NET Core and MVC frameworks.
 - **API & Microservices Design:** Building and integrating RESTful APIs enabling interoperability across distributed systems.
 - **Data Engineering & ETL:** Developing and automating ETL pipelines using SSIS, SQL Server, and Kafka.
 - **Database Optimization:** Structuring and tuning SQL Server, PostgreSQL, and MongoDB databases for high availability.
 - **Cloud & DevOps Integration:** Implementing Docker, Kubernetes, and Helm for CI/CD automation and container orchestration.
 - **System Analysis & Architecture:** Translating business needs into scalable technical solutions.
 - **Agile Leadership:** Guiding teams, leading sprints, and enforcing best practices for continuous delivery.
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Software Skills

- **Programming & Frameworks:** C#, ASP.NET Core, .NET Framework, Entity Framework, LINQ, JavaScript, Python.
 - **Database & Data Engineering:** SQL Server, PostgreSQL, MongoDB, SSIS, SSRS, SSAS, Dapper, Kafka, Debezium, ETL Pipelines, Data Warehousing.
 - **DevOps & Cloud Technologies:** Docker, Kubernetes, Helm, Nginx Ingress, Prometheus, Grafana, GitHub Actions, CI/CD, VMware.
 - **Reporting & Analytics Tools:** Power BI, OBIEE, Excel BI, SSRS Dashboards.
 - **Version Control & Project Management:** Git, GitHub, TFS, Azure DevOps, Agile & Scrum Practices.
 - **Libraries & Data Science:** Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn.
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Languages

Arabic: Native speaker.

English: Very Good (Reading, Writing, and Speaking).

Education

**Bachelor of Commerce | 2005 Faculty of Commerce —
Cairo University, Egypt**