

Mohamed Gamal Sedeek

Software & Data Engineer

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[kaggle](#) | [Portiflio](#) | [github](#)

[Reference link](#)

Professional Summary

Results-oriented Software and Data Engineer with over 10 years of proven success in .NET development, data engineering, and cloud-based enterprise systems. Expert in software architecture, API design, and ETL pipelines using C#, SQL Server, SSIS, Kafka, and .NET Core. Adept at delivering scalable, high-performance solutions integrating legacy and modern systems across enterprise, judicial, and governmental sectors. Demonstrates strong proficiency in database design, data warehousing, and real-time streaming architectures using Kafka, Debezium, and PostgreSQL. Skilled in containerization and DevOps practices (Docker, Kubernetes, Helm) with a deep understanding of CI/CD, monitoring, and microservices orchestration. Recognized for technical leadership, Agile collaboration, and ability to drive continuous improvement in complex software ecosystems. Committed to innovation, maintainability, and data-driven performance optimization to achieve measurable business outcomes.

Education

Bachelor of Commerce | 2005

Faculty of Commerce — **Cairo University, Egypt**

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 (2020 – 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.

Earlier Role (2015 – 2020)

- 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.

Selected Projects

Integration Service (Courts ↔ G2G) — Technical Team Lead

- Analyzing business requirements and designing service-oriented architecture (SOA) with WCF and SQL Server 2012.
- Unifying data formats and ensuring real-time synchronization between heterogeneous systems.
- Implementing secure communication, encryption, and optimized queries for rapid data retrieval.

Complaints Management System (MOJ) — Technical Team Lead

- Building a centralized web application using ASP.NET Core and TFS 2017 for complaint handling.
- Enhancing efficiency by automating workflows, notifications, and escalations—reducing manual processing by 45%.
- Configuring role-based access, dashboard visuals, and real-time analytics for transparency and accountability.

Data Warehouse & ETL System — Team Leader

- Designing SSIS-based ETL pipelines aggregating data from multiple sources into a SQL Server data warehouse.
- Validating and transforming data to ensure reporting accuracy and performance.
- Enabling Power BI and OBIEE dashboards supporting executive analytics and reducing manual reporting by 50%.

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 for 24/7 availability.

Judicial Portal & Statistics System — Technical Team Lead

- Creating ASP.NET dashboards consolidating judicial statistics nationwide.
- Automating data collection and reporting, reducing manual effort by over 50%.
- Ensuring high availability through redundancy designs and failover support.

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.

Personal Skills

- Strong analytical mindset.
- Excellent problem-solving ability.
- Effective communication skills.
- Leadership and team mentoring.
- High attention to detail.
- Time and task management.
- Strategic decision-making ability.
- Adaptability under pressure.

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.

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.

Languages

- **Arabic:** Native speaker.
- **English:** Very Good (Reading, Writing, and Speaking).