



MAHMOUD SALAMA

Director of systems, applications and technical support







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Summary

Experienced and highly skilled **Full-Stack Developer** with over 16 years of hands-on expertise in building and maintaining complex, scalable **web applications** and **enterprise software solutions**. Proficient in a wide range of **front-end** and **back-end technologies**, including **C#, ASP.NET, JavaScript, HTML, CSS, React, Angular, jQuery, SQL Server**, and **RESTful APIs**.

Strong background in **software architecture, system design**, and implementing best practices across the **software development life cycle (SDLC)**. Adept at working in **Agile/Scrum** environments, collaborating with cross-functional teams to gather requirements, analyze user needs, and deliver innovative, high-performance solutions. Demonstrated ability to lead teams, troubleshoot complex issues, write clean and maintainable code, and meet tight deadlines without compromising quality. Passionate about continuous learning and staying up-to-date with emerging technologies, frameworks, and development methodologies.

KEY ACHIEVEMENTS

- | | | |
|---|---|---|
|  Played a key role in digital transformation initiatives
At the Egyptian Authority for Unified Procurement (UPA) , enabling smarter, data-driven decision-making across departments. |  Built and managed high-performing technical teams,
Mentoring developers and fostering a collaborative, growth-focused engineering culture. |  Standardized development practices and documentation
Improving code quality and reducing onboarding time for new team members. |
|  Achieved consistent project delivery under tight deadlines
Demonstrating strong time management and stakeholder engagement skills. |  Successfully delivered multiple large-scale enterprise solutions
Using Full stack , achieving high system availability, scalability, and maintainability. |  Led integration of internal systems with national platforms
Enhancing interoperability and ensuring regulatory compliance. |

PROFESSIONAL EXPERIENCE

The Egyptian Authority for Unified Procurement, Medical Supply and the Management of medical technology "UPA" Cairo, Egypt
General Manager of systems, Applications and Technical Support Department 10/2020 - Present

- Oversee the implementation, maintenance, and support of all systems, applications, and technical resources within the department.
- Increase productivity by 200% by leading and managing a team of technical professionals, providing guidance, coaching, and support to optimize their performance and professional development.
- Collaborate with other department heads and stakeholders to identify and understand the organization's technological needs and requirements.
- Develop and enforce policies, procedures, and standards for the use of systems, applications, and technical resources.
- Evaluate and recommend new technologies, tools, and solutions to enhance the efficiency and effectiveness of the department's operations.
- Develop and deliver training programs and materials to educate users on the proper use of systems, applications, and technical resources.
- Write efficient and high-quality code following best practices.
- Stay updated with the latest advancements and trends in technology, recommending and implementing changes as appropriate.
- Foster a culture of continuous improvement and innovation within the department, encouraging creativity and proactive problem-solving.
- Take a hands-on approach in development, collaborating with the team on coding and development tasks. Write efficient and high-quality code following best practices.

Integral Solutions LLC

Development team leader and senior developer

Muscat, Oman

05/2016 - 10/2022

- Increase profit by 100 % by Providing technical guidance and expertise to a team of web developers. Mentoring and coaching team members to enhance their technical skills and knowledge.
- Oversee and manage multiple web development projects, ensuring timely delivery and adherence to project requirements and timelines.
- Collaborate with designers and stakeholders to create and refine the overall architecture and design of web applications. Ensure scalability, security, and maintainability of web solutions.
- Identify and resolve complex technical challenges with innovative solutions and effective troubleshooting.
- Ensure the quality and reliability of web applications through testing and debugging. Work with the team to implement and follow best practices for quality assurance processes.
- Collaborate with cross-functional teams, such as designers, project managers, and stakeholders, to gather requirements, provide updates, and ensure smooth project execution.
- Stay updated with the latest web development trends, tools and technologies. Evaluate and adopt new technologies to enhance the team's productivity and the quality of applications.
- Document project requirements, technical specifications and processes to facilitate knowledge sharing and ensure smooth project hand-offs.
- Interact with clients to understand their needs, gather feedback, and provide updates on project progress.
- Enforce coding standards and best practices within the team, ensuring alignment with industry guidelines and maintaining high code quality.

PROFESSIONAL EXPERIENCE

Keyframe Egypt

Cairo, Egypt

Development team leader and senior web developer

04/2011 - 05/2016

- Designed and developed complex web applications, dynamic websites, and reusable components using **C#, ASP.NET, HTML, CSS, JavaScript, jQuery**, and front-end frameworks such as **React**. Utilized development tools including **Visual Studio, SQL Server, Git**, and **TFS** to support the full **Software Development Life Cycle (SDLC)**, ensuring efficient deployment, version control, and ongoing maintenance.
- Implement user interface (UI) designs and responsive layouts, enhance user experience (UX) by adding interactive elements and optimizing page load times.
- Work with ASP.NET programming language to create server-side logic and integrate with databases and APIs.
- Design and implement efficient database schemas, queries, stored procedures, and transactions to support robust application functionality. Work with relational database technologies such as **SQL Server** and **MySQL** to ensure optimized data storage, retrieval, and performance.
- Lead and work closely with cross-functional team members, such as designers, UX/UI specialists, and project managers, to gather requirements and ensure smooth project execution.
- Applying security best practices in web development, including protecting against common web vulnerabilities (e.g., cross-site scripting, SQL injection) and ensuring data privacy and protection.
- Assist in troubleshooting issues reported by users or customers. Provide timely support and resolve technical problems to maintain optimal systems performance.
- Create and maintain technical documentation, including code comments, API documentation, and development guidelines.

Projects

Procurement and Supply of Medical Products System

Designed and developed a scalable, secure web application for managing the procurement, inventory, and distribution of medical products, utilizing **ASP.NET, C#, React.js, Node.js, GraphQL**, and **MySQL**. The system included features such as user management with **two-factor authentication (Google Authenticator)**, real-time inventory tracking, order management, and supplier integration. It also provided customizable workflows, **budget tracking**, and **Telerik Reports** for reporting. Delivered a responsive, cross-platform solution for desktop and mobile devices to streamline medical product procurement processes and ensure efficient data handling and performance.

Tenders and Contracts System

Designed and developed a scalable, secure web application using **ASP.NET, C#, MySQL, JavaScript, Web API, HTML, Kendo UI, CSS**, and **Bootstrap** to manage the entire tendering process, from creation to vendor submission and compliance tracking. The system allowed users to create and post tenders, search for relevant tenders, and submit bids, while securely managing documents and vendor activity. It featured robust reporting and analytics tools for tracking tender status, bids, and vendor performance. Implemented security measures like **encryption** and **multi-factor authentication** to protect sensitive data, with customization options to meet specific business and branding needs.

Correspondence Management System

I led the design and implementation of a Correspondence Management System aimed at streamlining and automating the full lifecycle of organizational communications. The solution enabled automated routing, workflow orchestration, electronic signature integration, and secure, role-based access control. Additionally, it featured seamless integration with document management systems, full-text search, customizable templates, real-time notifications, audit trails, and analytics dashboards for monitoring correspondence volume and response times. I utilized technologies such as **ASP.NET, C#, SQL Server, DotNetNuke, JavaScript, HTML5, CSS, jQuery, Kendo UI, Syncfusion UI, Telerik Reporting, Telerik Rad Controls, Charts.js, Web API**, and **Crystal Reports**. This system significantly enhanced cross-departmental collaboration, reduced manual processing, and ensured compliance with internal policies and regulatory standards.

Asset Management System

Designed and developed a comprehensive **Asset Management System** to streamline asset tracking, utilization, and maintenance processes across the organization. The system enabled real-time inventory management, asset location tracking, and usage optimization, supported by barcode and QR code scanning for fast identification. It included automated alerts and notifications for maintenance schedules, customizable asset categorization and tagging, and role-based security features to prevent theft and unauthorized access. Technologies utilized included **ASP.NET, C#, SQL Server, JavaScript, HTML5, CSS, jQuery, Kendo UI**, and **Web API**, delivering a robust, scalable solution that improved asset visibility, reduced operational loss, and enhanced lifecycle management.

Crisis Management System

Designed and implemented a dynamic **Crisis Management System** to enhance organizational preparedness, real-time coordination, and post-crisis evaluation. The platform featured a customizable dashboard for a comprehensive view of crisis events, integrated real-time communication tools for effective team collaboration, and incident tracking for detailed crisis monitoring. It included risk assessment modules, emergency notification capabilities for rapid stakeholder alerts, and integration with external emergency response agencies to ensure unified action. The system also supported employee training and post-crisis analysis for continuous improvement. Technologies utilized included **ASP.NET, C#, SQL Server, JavaScript, HTML5, CSS, jQuery, Kendo UI**, and **Web API**, resulting in a scalable, secure solution that strengthened crisis response and organizational resilience.

Recruitment System

Designed and developed a robust **Recruitment System** to optimize the entire hiring process, from job creation to candidate onboarding. The system enabled efficient job posting and management, integrated an applicant tracking system (ATS) to monitor and evaluate candidates, and provided tools for organizing resumes and application documents. Features included interview scheduling, candidate assessment, and scoring, as well as automated email notifications to applicants. The platform allowed for customizable job postings and application forms to better align with specific job requirements. It also incorporated compliance management to ensure adherence to hiring policies and regulations, and integrated seamlessly with existing HR systems for a streamlined recruitment and onboarding process. Additionally, a grievance module was included to allow candidates to voice concerns about the recruitment outcomes. Technologies used included **ASP.NET, C#, SQL Server, JavaScript, HTML5, CSS, jQuery, Kendo UI**, and **Web API**, delivering a scalable, efficient, and compliant solution.

Projects

Ministry of Health and Population of Egypt Website

https://www.mohp.gov.eg

Developed and maintained the official website for the **Ministry of Health and Population of Egypt**, providing a user-friendly platform for citizens to access vital health information. Key features included a robust **Content Management System (CMS)** for easy content updates, an **electronic voting poll system** for citizen engagement, and modules for **news and events** updates, a comprehensive **electronic library**, and an interactive **FAQ section**. The website also featured a **newsletter** system, **image and video galleries**, and seamless **social media integration** to connect with the public across multiple platforms. Technologies used included **ASP.NET, C#, SQL Server, JavaScript, HTML5, CSS, jQuery**, and **Web API**, creating a dynamic, scalable, and accessible digital presence for the Ministry.

Ministry of Agriculture, Fisheries and Water Resources of the Sultanate of Oman Website

https://www.maf.gov.om

Developed and implemented the official website for the **Ministry of Agriculture, Fisheries and Water Resources of the Sultanate of Oman**, aimed at providing easy access to key information and services for citizens and stakeholders. The website featured a dynamic **Content Management System (CMS)** for seamless content updates, **news and events modules** to keep the public informed, an interactive **FAQ section**, and rich **image and video galleries** to engage visitors. The platform was designed to be scalable, user-friendly, and easily manageable. Technologies used included **ASP.NET, C#, SQL Server, JavaScript, HTML5, CSS, jQuery**, and **Web API**, ensuring an efficient and reliable digital presence for the Ministry.

Personal Skills

Problem Solving



Critical Thinking



Communication



Organizational Skills



Leadership



Time Management



Emotional Intelligence



Continuous Learning



Cross-Functional Collaboration



Education

Faculty of computers and informatics

Bachelor of computer science

Zagazig, Egypt

2003 - 2007

Professional Involvements

Manama health 1st edition

12/2022

I participated as a General Manager at the UPA, where I was a speaker in a lecture on bioinformatics.

Track and trace for pharmaceutical products committee member

Collaborated with UPA, drug authority and ministry of health's top-level managers to set the vision and goals for the project.

Egypt's Blood Operations Oversight Board Member

Under the direction of the Egyptian Minister of Health, I serve as a member of the Blood Operations Control Board in Egypt.

TECHNICAL SKILLS

C# · ASP.NET · JavaScript · Node.js · Dot Net Core · HTML5 · CSS3 · React.js · Angular · jQuery

SQL server · MySQL · PostgreSQL · Redis · MongoDB · GraphQL · LINQ · Entity Framework · ADO.NET

Kendo UI · Telerik UI · DevExpress · ComponentOne · jqWidgets · Infragistics · Syncfusion UI

RESTful APIs · Swagger · Postman · Web API · SignalR · Socket.IO

Crystal Reports · Apache Superset · Telerik Reporting · DevExpress Reporting · Chart.js · FusionCharts · CanvasJS · RadChart · Kendo UI Charts · Highcharts

Software Architecture · System Design · Security Best Practices · OOP · Solid principles · Design patterns

Docker · IIS · Nginx · GitHub · Apache · Jenkins · Git

DotNetNuke · Umbraco · Sitefinity · Kentico · nopCommerce · Virto Commerce

Scrum · Agile · JIRA

Languages

Arabic ●●●●●

English ●●●●●