



MAHMOUD SHAHEEN

.Net Technical Lead

PROFILE

Electrical Engineer specialized in Software Development and Architecture.

Passionate about exploring new technologies.

Very flexible Team Player/Leader, Strategic planner, Fast learner and best knowledge implementer.

Actively looking for good projects to work on with creative team.

CONTACT

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INFO

New Cairo, Cairo, Egypt
Date of birth: Feb 12, 1994
Military Service: Fulfilled

LANGUAGES

Arabic: Mother Tongue.

English: Professional working proficiency.

WORK EXPERIENCE

.Net Technical Lead – Giza Systems

January 2023 – Present

- Tech lead considered a leader, developer, and architect all in one, which requires essential skill set:
 - As a **leader**, mentor team members, delegate tasks, issue feedback, evaluate risks, and resolve conflicts.
 - As a **developer**, apply programming tools, utilize design patterns, perform automated testing, and refactor code.
 - As an **architect**, perform technical assessments, oversee development lifecycle, direct release management, and adhere to regulations.

Senior Software Engineer | Project Dev Lead – Giza Systems

February 2021 – January 2023

- Design, develop and maintain multiple IOT enterprise systems.
- Support in planning product development and timelines.
- Find and formulate creative solutions for business problems.
- Manage and Guide team efforts towards successful delivery.
- Designing Big Data Pipelines using multiple technologies.

Lead Software Engineer – STC (Riyadh head quarter)

August 2020 – February 2021

- Design, Develop and maintain multiple systems [Integration System, Monitoring Dashboard, Notification Platform].
- Find and implement creative solutions to improve work process.
- Provide technical leadership to teammates through coaching, mentorship and code review.
- Support in planning product development and timelines.

Software Engineer – STC (Riyadh head quarter)

August 2019 – August 2020

- Collect, document, and analyze requirements from various sources.
- Design and develop integration system to connect multiple systems.
- Business process automation using RPA and system integration.
- Various development tasks mostly .Net.
- Provide technical leadership to teammates through coaching, mentorship and code review.

Application Management Engineer – Giza Systems

March 2019 – October 2019

- Design & develop solutions to facilitate or automate repetitive tasks.
- Implement and present POC solutions to different customers.
- Robotics Process Automation workflows
- Business process improvement.

PROJECTS HIGHLIGHTS

DOMINOS

Dominos provides everything required beyond the .Net Framework for creating enterprise applications for a wide range of scenarios and architectures.

TECHNOLOGIES:

- .Net Core,
- Micro-services, Event Driven,
- Domain-Driven Architecture,
- CQRS, Event Sourcing,
- Eventual Consistency or Distributed Transactions,
- Tools Abstraction.

ROBOMAGICA

Enterprise Automation Eco-System

Used for automation through system integration or UI interactions, or Both!

COMPONENTS:

- **IDE:** For developing automated processes.
- **Robot:** For running developed processes.
- **Back-end:** For managing robots and workflow management.

TECHNOLOGIES:

- .Net FW, .Net Core, Angular,
- Signal-R, Identity,
- O-Data APIs, WPF,
- MS-SQL, EF-Core
- ASP Boiler Plate.

MODON

Multi-tenant Application for managing industrial IOT smart city, The main aim of the system is to manage, monitor and control the city.

TECHNOLOGIES:

- Java, Spring, Angular,
- Micro-services, Cloud, Docker,
- Big Data, Kafka, Spark, HBase,
- and many more...

EXPERTISE

WORK EXPERIENCE

Developer, Technical Consultant – Freelance

August 2015 – August 2017

- Working in partnership with non-tech companies, advising them how to use modern technologies in order to meet their business objectives or overcome problems.
- Improving the structure and efficiency of existing systems.
- Sometimes involved in marketing and business development, beside technical duties.

Mentor – Mentors Without Borders

September 2019 – Present

- We are a group of passionate professionals who want to teach young people from all over the world how to enjoy the process of setting goals and taking steps towards these goals in their chosen fields.

EDUCATION

Computers & Systems Engineering Bachelor Degree

Electrical Engineering, Zagazig University - 2017

Total Grade - Good

College Activities

- Microsoft Tech Club: October 2013 – July 2015
- Enactus: October 2013 – October 2014
- IEEE RAS Egypt Chapter: October 2014 – February 2015

TECHNICAL SKILLS

- C#, .Net Framework, ASP.Net Core, EF Core,
- Java, Spring, Spring Boot, Spring Data, Spring Cloud,
- Big-Data, HBase, Spark, Elastic Search, Kafka, RabbitMQ,
- HTML, CSS, JS, Angular,
- Algorithm, Data Structure, Design Patterns, SOLID Principles,
- RPA, Digital Transformation, IOT, Out-Systems,
- Computer organization, operating system,
- CompTIA A+, Network+, Linux+, Security+
- Familiar with:
 - Multiple languages: python, C, C++, VB, PHP.
 - Databases: MySQL, SQLite, NoSQL, MS-SQL, Redis, Postgres
 - Web Technologies: Node.JS, WordPress, Firebase, SEO.
 - Mobile: Flutter, Android, Xamarin.
 - Tools: Git, Cloud, Networks, Server administration, Docker, Azure DevOps, Jira
 - Agile, SDLC, Scrum.
 - Artificial Intelligence, Machine learning.

PROJECTS HIGHLIGHTS

MOQA

- Enterprise Templates, Frameworks and Tools to help cut down development time and make developer's life easier.

MONITORING DASHBOARD

- The aim of this System is to enhance the monitoring process and automating it as much as possible to pro-actively detect issues and increase customer satisfaction by fixing problems instantly.
- Includes measures to ensure business continuity, disaster recovery and increase daily tasks agility by automating recurring daily activities and active monitoring.

NOTIFICATION PLATFORM (MERSAL)

- Complete system to provide multiple notification channels for other systems to integrate with and support custom workflows.

INTEGRATION SYSTEM (STC INTEGRATIONS)

- Web Application used for integrating multiple systems together.
- Also integrates with RPA to automate multiple tasks.

MULTIPLE AUTOMATED PROCESSES (RPA)

- Business process automation using RPA and system integration.
- ASP.Net API for running robots and query status.

IT AUTOMATION THROUGH SYSTEMS INTEGRATION

- Automating common tasks across different systems by implementing middle layer between them.
- For complex tasks, orchestrator or BPM is used.

MULTIPLE CLOUD SERVER

- Summary: Multiple cloud servers Installation and implementation.
- Includes LAMP, Mail, Mobile backend, Real time messaging

PROJECTS

Multiple business sites.

- Summary: Websites for non-technical companies,
- Modifications to already built websites or re-build from scratch.
- Technologies: ASP, PHP, WordPress, HTML, CSS, JS, MySQL, MSSQL

Multiple business systems modifications.

- Summary: developing new modules for ERP systems, or adding new features, and Bug Fixes
- Examples: Exporting Module for ERP system, inventory management system, Employee's attendance system, Recruitment system.

Mobile Backend

- Summary: Mobile backend server based on Parse includes: database, users,
- Authentication and authorization, live database, notification system, Admin dashboard
- Mobile SDKs
- Technologies: Node.JS, MongoDB, Parse Platform

College System with Social-Networking capabilities.

- Summary: Backend team leader for 15 developers
- College system includes grades, courses registration, etc.
- Social Network for CSE including users, profiles, Notification system, Chat
- Technologies: PHP, MySQL

IOT Medical Box [Hardware, Cloud, Android, Python] (MEDOX).

- Summary: Medical box which offer an easy and handy way to help caregivers take care of senior citizens and keep track of their medication and keep them organized,
- Also will give them a fast way to ask for help in emergencies and a way for caregiver to track vital signs and location of senior citizen.
- Technologies: Hardware design, Arduino, RPI, Python, Android, Cloud, IOT, Node.JS

Eight digits puzzle Solver using Various AI Algorithms.

- Summary: Problem Solving by Searching Algorithms Applied on 'Puzzle Game'
- Using multiple AI algorithms such as (DFS, BFS, GBFS, A*) Iterative and Recursive
- Technologies: VB.Net, AI, Data Structure

Hardware processor Cache Simulator.

- Summary: Simulation of CPU Cache system
- Technologies: Computer organization, C++

Linux Kernel modification.

- Summary: Adding Commands and modifying Linux kernel.
- Technologies: OS, C