

## Moustafa Mahmoud Rateb

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### Professional Summary

Highly skilled Software Engineer with over 15 years of experience designing and delivering cutting-edge solutions across Oil & Gas, Mobile Communications, E-Learning, ERP, and Healthcare industries. Expertise in software development, OutSystems low-code platform, strategic prototyping, and automation processes, leveraging state-of-the-art technologies to achieve impactful results. Adept at leading cross-functional teams and driving success through innovation and collaboration. Seeking a senior role in software development, automation, or data science to contribute my extensive expertise.

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### Professional Experience

#### Software Team Leader (OutSystems)

**Digination** | May 2022 – Present

- Spearheaded the development of a Firebase Notifications module using the OutSystems low-code engine.
- Delivered multiple OutSystems-based services for high-profile clients, including the Saudi Center for Strategic Partnerships and the Ministry of Transportation, Saudi Arabia.
- Designed and implemented a CMS tool in OutSystems to create dynamic websites, utilized for launching the Association Support Fund's official website.
- Collaborated in requirements gathering for an enterprise application for charities.

#### Senior Software Developer

**Cegedim Egypt** | Jan 2020 - Apr 2022

- Enhanced the Actisure claims management system by developing new features and maintaining core functionalities.
- Played a key role in building the software development team by conducting technical interviews and screening candidates.

### Software Team Leader

**Double Click ERP** | Mar 2019 – Dec 2019

- Streamlined project delivery processes through agile methodologies, including sprint planning and daily standups.
- Authored requirements documentation and led the development of a subscription app web application.
- Contributed to the HR web application's development lifecycle, offering technical expertise and guidance.

### Lead Software Developer

**Nagwa** | Jan 2018 – Feb 2019

- Directed a team to develop .NET Core services for rendering content files into HTML, optimizing their integration with the company's website.
- Enhanced Lua scripts to reduce the size of output images for rendered equations.
- Managed agile workflows to ensure timely delivery of projects.

### Senior Software Developer

**Nagwa** | Aug 2015 – Jan 2018

- Automated localization of educational content for multiple languages, unit systems, and mathematical notations using C# and LuaLaTeX.
- Designed a MongoDB-backed reporting solution for localization progress and content analysis.
- Mentored junior developers, fostering a collaborative and productive team environment.

### Senior Software Developer

**Tronix** | Jul 2014 – Jul 2015

- Developed a simulation application for oil and gas separator units using mathematical modeling in C#.
- Installed and configured cyber chair drilling simulators for training centers in Cairo and Uganda.
- Provided mentorship to junior developers, simplifying complex simulation concepts.

### Software Development Tools Engineer

**Intel Mobile Communication** | Apr 2013 – Jun 2014

- Designed and maintained Perl utilities to enhance code quality and ensure compliance.
- Developed an Eclipse plug-in to simplify XML editing and validation processes.

### Software Developer

**Tronix** | Feb 2010 – Mar 2013

- Engineered simulation solutions for petroleum field production processes and virtual reality applications.

- Created hardware abstraction layers for diverse modules such as joysticks and gauges.
- Presented the cyber chair drilling simulator at the InfoBiz Trade Show in Kuwait.

## Education

Bachelor's in Electronics and Communications Engineering  
Faculty of Engineering, Cairo University | 2008

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## Certifications

- Machine Learning, Stanford University (Coursera)
  - Data Wrangling with MongoDB, Udacity
  - ASP.NET Core: Test-Driven Development, LinkedIn Learning
  - Fluent API Development in C#, LinkedIn Learning
  - Characteristics of a Great Scrum Master, LinkedIn Learning
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## Skills

### Core Competencies:

Domain-Driven Development (DDD), Agile Methodologies (Scrum, Kanban), Problem-Solving, Cross-Team Collaboration

### Technical Skills:

Programming Languages: C#, Python, JavaScript, Lua, Perl, VB.NET

Frameworks and Tools: ASP.NET Core, Entity Framework, OutSystems, React.js

Databases: SQL Server, PostgreSQL, MongoDB

Development Tools: Visual Studio, Eclipse

Web Development: Node.js, Express.js, RESTful Services

Specialized Skills: Data Wrangling, Regular Expressions

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## Languages

- English: Professional Working Proficiency

- Arabic: Native

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## References

Available upon request.