



Mohamed Fathy Abd EL-Shafy

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Professional Profile

Innovative software engineer & CTO with 15+ years of experience in software architecture, .NET development, and AI research.

Co-founder of DMJ Software Industry, leading cross-functional teams to deliver scalable enterprise systems for transportation and business automation.

Passionate about bridging the gap between software engineering research and real-world applications through NLP, machine learning, and prompt engineering.

Career Objective

Seeking a leadership or senior technical position in software architecture or AI research where I can leverage my expertise to drive innovation and mentor development teams.

Seeking a challenging position in a progressive organization where I can utilize my skills in software programming, development, and research to contribute to innovative projects and drive organizational success.

Education

- **PHD Degree** [2024 - Present]
 - College: Faculty of Statistical Studies and Research Cairo University
 - Department: Software Engineering
 - Research Point: Enhancing Spreadsheet Data Processing through NLP and Prompt Engineering Dex tool.
 - Another Research in Computer Vision and Product management Cycle and another Research in Software Engineering.
- **Master's Degree** [2022 - 2024]
 - Defense Date: 01-10-2022
 - Collage: Faculty of Statistical Studies and Research Cairo University
 - Department: Software Engineering

- Research Point: Natural Arabic language Processing with Machine Learning Technique.
- **Diploma Degree** [2017- 2018]
 - Defense Date: 01-10-2017
 - Collage: Faculty of Statistical Studies and Research Cairo University
 - Department: Software Engineering
 - Track: Web Development and design
 - Courses summary: ASP.NET Core – C# - Data Base Management System – Python – PHP- JavaScript – jQuery – CSS – Bootstrap – Photoshop for web - HTML – SQL SERVER - UML – SEO – OOP – Software Methodology
- **Diploma Degree** [2012 - 2014]
 - Defense Date: 01-05-2012
 - Institute: Arab Academy for Science, Technology
 - Department: Learn programming
 - Track: Web Development and design
 - Course's summary: Visual Basic – C# - SQL SERVER – C++ – PHP- JavaScript – CSS- HTML – OOP – Cobol – Assembly – Basic 6.

Professional Experience

- **Co-founder, CTO, Software Architect, and Project Manager [01-01-2022] Present**
DMJ Software Industry
 - Designed and implemented architectural frameworks for complex software projects.
 - Led cross-functional teams in the development and delivery of software solutions.
 - Managed project timelines, resources, and budgets to ensure successful project completion.
 - Oversaw the full software development lifecycle, from requirement gathering to deployment.
 - Coordinated with stakeholders to define project scope and objectives.
 - Ensured compliance with industry standards and best practices in software development.

- Identified and mitigated project risks, ensuring timely delivery and quality assurance.
 - Conducted regular project status meetings and provided updates to senior management.
- **Freelance Software Architect [01 – 01 - 2022] Present Various Companies**
- Collaborated with multiple clients to design and develop custom software solutions.
 - Provided architectural consulting services to optimize system performance and scalability.
 - Conducted technical assessments and provided recommendations for technology stack and architecture.
 - Developed and maintained architectural documentation and best practices.
 - Worked closely with development teams to ensure the implementation aligned with architectural vision.
 - Delivered projects on time and within budget, ensuring client satisfaction and repeat business.
 - Managed project scopes, timelines, and deliverables in a freelance capacity.
- **Researcher in Machine Learning and Natural Language Processing [01 – 01 - 2022] Present**
- Conducted research on machine learning techniques with a focus on natural language processing (NLP).
 - Published multiple research papers in reputed journals and conferences.
 - Developed NLP models for various applications such as sentiment analysis, language translation, and information retrieval.
 - Implemented machine learning algorithms using frameworks like TensorFlow, PyTorch, and Scikit-Learn.
 - Analyzed large datasets to extract meaningful insights and improve model performance.
 - Collaborated with academic and industry professionals to advance research in NLP and machine learning.
 - Presented research findings at international conferences and workshops.

<https://www.researchgate.net/profile/Mohamed-Fathy-21>

- **Team Lead in DMJ Company from [01 – 01 - 2022]**
 - Responsibilities:
 - Establish the architect of the project and create a framework.
 - Agile Coach.
 - Lead the team and handle tasks.
 - Solve problem.
 - Analysis, designing, developing, assessing, and troubleshooting software programs and applications.
 - Maintaining web site problems.
 - Part of digital transformation team.
- **Senior .Net Developer in 5Worx Company [25 – 04 - 2020]**
 - Responsibilities:
 - Analysis, designing, developing, assessing, and troubleshooting software programs and applications.
 - Maintaining website problems.
 - Part of the digital transformation team.
- **Senior .Net Developer in Smart Business Company [05-05-2019]**
 - Responsibilities:
 - Designing, executing, assessing, and troubleshooting software programs and applications which include configuring, analyzing, designing, coding, developing, unit testing and documenting software specifications throughout the project life cycle.
 - This responsibility will extend to contributing to the estimates of the project, the quality and timeliness of the deliverables and the project's compliance with the organizational processes and standards.
- **.Net developer in Data Link Company [01-12-2018]**
 - Responsibilities:
 - Work In team in ERP System.
 - Develop, research, design, analyze, and modify Project Server solutions
 - Provide support for clients remotely.
 - Support the planning of system and development deployment and meet software compliance standards.

- Document testing and maintenance of system corrections
- **.Net Developer in A charity BSAAR**
 - Responsibilities:
 - Develop, research, design, analyze, and modify Project Server solutions
 - Support the planning of system and development deployment and meet software compliance standards.
 - Document testing and maintenance of system corrections

Training Experience

- **Lecturer – Software Engineering Department** [2022 - Present]
 - Faculty of Statistical Studies and Research, Cairo University
 - Deliver lectures and supervise practical sessions in Software Engineering and related topics.
 - Guide postgraduate students in research on AI, NLP, and software development methodologies.
 - Participate in curriculum development to align academic courses with industry requirements.
- **Instructor** [2017]
 - El-Slab University
 - Web Diploma (PHP – HTML – CSS – Bootstrap – JavaScript - jQuery)
- **Instructor** [2016]
 - Smart Academy
 - Web Diploma (PHP – HTML – CSS – Bootstrap – JavaScript – jQuery – C#)

Preparing more than 2,000 trainees for the labor market working as programmers and artificial intelligence

Certificates

- MCSA: SQL 2016 Database Development
- MTA: Basics of Software Development
- MCSA: Web Applications

- MTA: Basics of Software Development
- MTA: Introduction to Programming Using Python
- Full Stack Development Path for One Million Arab Programmers
- MPN Competency: Data Platform & Analytics Foundational for Data Platform Competency (MPN14354)
- MPN Competency: SQL Server 2016 - Mission Critical and Hybrid (MPN14355)
- MCITP Windows Server 2010
- PHP Diploma Crisco
- Microsoft SQL Server 2012 Certification Training Exam 70-461
- One million Arab programmer's initiative Full Stack Python Programming

Special Skills

- **Language skills:**
 - Arabic (Mother tongue)
 - English (Very Good reading, writing, and speaking)
- **Platform skills:**
 - Microsoft Windows (Excellent), Ubuntu Linux (good)

Technical Skills

- **Programming Languages:**
C# – JavaScript – Python – VB – Java – C++
- **Data Base Programming:**
 - Microsoft SQL Server – DBMS – MySQL
- **Web Programming:**
ASP.NET – PHP – HTML – CSS – BOOTSTRAP – JQUERY – Laravel –
JavaScript - ADO - Ajax – LINQ
- **Modeling Techniques:**
ERD.(Entity Relationship Diagram) , UML.(Unified Modeling Language)
- **Machine Learning:**
Web Scrabbing – Machine Learning and deep learning – TensorFlow –
Pandas – NumPy – Data Visualization - SKLEARN – Python for
Machine Learning - NLP – On-Device Machine Learning

- **Cloud and DevOps:**
Cloud Application Development – DevOps – Kubernetes - AWS – Docker – Containers – Elastic – Cluster
- **Conceptual Knowledge:**
 - Understanding of Object Orientated Concepts, Understanding of Software Engineering Concepts and Agile Methodologies – Software Architect – Software Design – Design Pattern.
- **Soft Skills:**
 - Work in a team.
 - Thinking out of the box.
 - Leadership capabilities.
 - Interactive and fast learner.
 - Work under pressure.
 - Highly developed communication & presentation skills.
 - Problem solving.
- **Hobbies:**
 - Reading, bicycling, Painting & drawing
- **Sports:**
 - Tennis, Football
- **Volunteer:**
 - 2 years at Student union
 - Learn programming course at Ressala Charity

Personal Information

Birth date	24/12/1985
Current Location	Cairo
Nationality	Egyptian
Gender	Male
Marital Status	Married
Military status	Exempted.

References

References are available on request.