

# MOHAMAD A. SALLAL

PHD STUDENT . SR. SOFTWARE ENGINEER . DATA SCIENTIST . AUTHOR

Nashville, TN, 37221, USA

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## SUMMARY

- Skilled software engineer, with over 9 years of experience making key contributions to top-performing development teams.
- Exceptional knowledge of SharePoint, C#, C++ ASP.NET, Python, and MS SQL Server tools, with strong background in all phases of development lifecycles. Adept at leveraging cutting-edge technologies and methodologies to find new solutions that enhance application quality and usability.
- Dedicated to using technical expertise to achieve corporate objectives and add value to businesses. Excellent at identifying and meeting client needs. Trained in project management processes and body of knowledge areas with full project implementation. Highly acclaimed, sophisticated technology thought leader of progressive experience providing advanced its infrastructure direction across multiple sectors.
- Senior SharePoint specialist at Microsoft SharePoint 2010/2019 takes great pride in my work helping unlock and evaluate SharePoint platform as well as improve ALM and general software development practices.

## AWARDS & ACHIEVEMENTS

- Oct 2020 – **IEEE BIBM 2020** International Conference on Bioinformatics and Biomedicine 2020 **Acceptance Rate: 19.4%**
- 2015 & 2016 – **EMPLOYEE OF THE YEAR** Ministry of Higher Education – Abu Dhabi - Employee of the Year **IT Department Award**.
- Oct 2011 – **ACM 2<sup>ND</sup> COMPETITION WINNER** MENA Collegiate Programing Contest, at **Prince Sumaya University for Technology**.
- **SINCE 2007 TO 2011 – UNIVERSITY DEAN HONOR BOARD** Standing as Top Student Among 73 Students Who Graduate in The Same Year at Yarmouk University - CS Department.
- **MAY 2011 – UAE - ABU DHABI - ZAYED UNIVERSITY** Software Engineering Competition, Winner as One of The Best 10 Worldwide, Competition in SRS (**UOBSERVE**).
- **JAN 2011 – E-CAR TRAFFIC & PARKING CONTROL SYSTEM “RESEARCH”** Innovative Solution for Traffics Controlling and Parking Using **GSM – GPS – RFID**.
- **Nov 2011 – BEST GRADUATION PROJECT AT CS DEPARTMENT SINCE 9 YEARS** Evaluated as The Best Graduation Project Since 9 Years.

## EDUCATION

**TENNESSEE STATE UNIVERSITY**  
**MASTER’S DEGREE - RESEARCH**  
DEC 2019 – DEC 2020

**Ms. COMPUTER SCIENCE – BIOINFORMATICS**

**GPA (A - 4.0) EXCELLENT – HONOR.**

Python, Bioinformatics, Machine Learning, Dynamic Programming, Chimera, PDB, Cryo-EM

**RESEARCH AND PUBLICATION:**

- Machine Learning Approach to Assign Protein Secondary Structure Elements from  $C\alpha$  Trace – **IEEE BIBM-2020**
- Bioinformatics Graduate Research Assistant

**TEXAS A&M UNIVERSITY COMMERCE**  
**MASTER’S DEGREE**  
JAN 2019 – DEC 2019

**Ms. COMPUTER SCIENCE – ARTIFICIAL INTELLIGENCE - DATA SCIENCE**

**GPA (A - 4.0) EXCELLENT – HONOR.**

**RESEARCH:**

- RNA Efficient Structure Comparison Algorithms with Sequence Alignment Using Dynamic Programming
- RNA Sequence Drawing & Visualization [Click to view](#)

**YARMOUK UNIVERSITY**  
**BACHELOR’S DEGREE**  
2007 – 2011

**BSc. COMPUTER INFORMATION SYSTEM**

**GPA (A) EXCELLENT – HONOR**

Dean Honor Board , ACM Competition Winner , Zayed University Competition Winner

## PUBLICATION

- **MOHAMMAD A SALLAL, WEI CHEN, KAMAL AL NASR** "Machine Learning Approach to Assign Protein Secondary Structure Elements from  $C\alpha$  Trace" **IEEE BIBM-2020** International Conference on Bioinformatics and Biomedicine 2020 **December-2020** - [Click to view](#)

## PROFESSIONAL CERTIFICATION

- **ARTIFICIAL INTELLIGENCE FOUNDATIONS: NEURAL NETWORKS** - **LINKEDIN** Certificate of Achievement
- **070-576: PRO DESIGNING AND DEVELOPING MICROSOFT SHAREPOINT 2010 APPLICATION**
- **070-668: PRO MICROSOFT SHAREPOINT 2010, ADMINISTRATOR**
- **070-315:** Developing and Implementing Web Applications with MS Visual C# .NET and MS Visual Studio .NET
- **070-316:** Developing and Implementing Windows-Based Applications with MS Visual C# and MS Visual Studio
- **ACM** Association for Computing Machinery - **CERTIFICATE OF ACHIEVEMENT**  
**2<sup>ND</sup> PLACE WINNER** MENA Collegiate Programing Contest  
**Prince Sumaya University for Technology**
- **UOBSERVE:** Software Engineering Competition, Winner as One of The Best 10 Worldwide, Competition in SRS.  
**Zayed University – UAE, Abu Dhabi**



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## PROFESSIONAL EXPERIENCE

### GRADUATE ASSISTANT

Since Jan 2020

### MACHINE LEARNING- BIOINFORMATICS RESEARCH ASSISTANT

Focusing on Protein Secondary and Tertiary Structure Determination by Doing Geometrical Calculation on PDB C $\alpha$  Trace and Applying latest Machine Learning Algorithm.

#### CONTACT INFO:

Tennessee State University – Nashville, TN, USA  
[kalhasr@tnstate.edu](mailto:kalhasr@tnstate.edu) – (575) 650-3718 – [www.tnstate.edu](http://www.tnstate.edu)

### FEDERAL CUSTOM AUTHORITY

Nov 2018 – Jan 2020

### Sr. APPLICATION SPECIALIST

Freelance "Remote Job" with [Federal Custom Authority](#) while doing my master's degree.

#### SELECTED PROJECTS

- FCA website migration – from SharePoint 2010 to SharePoint 2016 with Nintex workflow engine and custom services
- Intranet Portal – building a fresh FCA intranet portal with SharePoint 2016, SQL Server always-on, SPFX and Nintex.
- Customer Inquiry Service – SharePoint integration with Nodejs and custom chatbot

#### CONTACT INFO:

Federal Custom Authority – Abu Dhabi, UAE  
Shadi Hmeidan – [shmeidan@fca.gov.ae](mailto:shmeidan@fca.gov.ae) +971 50 986 0861 – [www.fca.gov.ae](http://www.fca.gov.ae)

### MINISTRY OF EDUCATION

#### EXCEED IT SERVICE

May 2016 – Oct 2018

### Sr. SYSTEM ARCHITECT AND APPLICATION SPECIALIST

Sr. C# Developer, SP2016 Development, Migration, Customization, SSO Implementation, Echo System Integration.  
Played Roles as: Software Architect, Business Analyst, Team Lead.

#### SELECTED PROJECTS

- MOHESR with MOE merging – merge Ministry of Higher Education with Ministry of Education, 27 inconsistent critical system with different technology
- SSO – MOE Single Sign-On with ADFS and SAML 2.0 for onsite access
- SSO – MOE website Single Sign-On integrated with 7 different services for public users, students, and teachers.
- MOE website migration – from SharePoint 2010 to SharePoint 2016 with Nintex workflow engine and custom services
- Intranet Portal – building a fresh MOE intranet portal with SharePoint 2016, SQL Server always-on, and Nintex.

#### CONTACT INFO:

Ministry of Education – Al Qusais, Dubai, UAE.  
Imad Qasem – [imad.qasem@moe.gov.ae](mailto:imad.qasem@moe.gov.ae) +971 56 6862225 – [www.moe.gov.ae](http://www.moe.gov.ae)

### MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH

Mar 2015 – May 2016

### Sr. SYSTEM ARCHITECT AND APPLICATION SPECIALIST

Internet Portal SP 2010-2013 Migration, Customize Intranet Solution, Implement SSO Using ADFS, Certificate Authority Servers. Played Roles as: Software Architect, Business Analyst, Implementer, Developer.

#### SELECTED PROJECTS

- MOHESR website – Ministry of Higher Education website using SharePoint 2013 with Nintex workflow engine and custom services.
- MOHESR Single Sign-On integrated with 3 different services.
- Shorik Initiative – build an application that connected all UAE graduate student with their embassy with MOHESR.

#### CONTACT INFO:

Ministry of Higher Education and Scientific Research - International Tower - Abu Dhabi Exhibition Center Area, Abu Dhabi, UAE.  
[amr.jaber@moheer.gov.ae](mailto:amr.jaber@moheer.gov.ae) +971 56 6862225 – [www.moheer.gov.ae](http://www.moheer.gov.ae)

### KAIZENPLUS

Jun 2012 – Mar 2015

### SYSTEM ARCHITECT AND APPLICATION SPECIALIST

Outsourced Contract with UAE Ministry of Culture UAE, Dubai Health Authority, Ministry of Finance, GASCO and ADNOC

#### SELECTED PROJECTS

- Ministry of Culture e-Services – SharePoint 2010, CRM, SOAP services and custom workflow
- DHA website – Dubai health authority main website, ASP.NET, SharePoint, OData
- MOF e-Services – Ministry of Finance 4 different services, ASP.NET, SharePoint, SOAP, SAML 1.1, SignalR
- GASCO e-Services – from SharePoint 2010 to SharePoint 2016 with Nintex workflow engine and custom services
- KaizenPlus infrastructure – Active Directory, DNS, DHCP, ADFS, Certificate Authority, Lync Server 2013, Intranet portal

#### CONTACT INFO:

9543 Gateway Commercial Complex, Al Wakalat St. Amman, Jordan  
[malak@kaizenplus.com](mailto:malak@kaizenplus.com) – 00962 79 5523063 – [www.KaizenPlus.com](http://www.KaizenPlus.com)

### ETQ

#### ENTERPRISE QUALITY MANAGEMENT

Aug 2011 – Mar 2012

### JAVA DEVELOPER

#### QUALITY, EHS, FDA & COMPLIANCE MANAGEMENT SOFTWARE

Analysis and implement client requirements to support ETQ web applications - **RELIANCE**  
Implementing code refactoring to enhance the design of existing code, while maintaining the same behavior

#### SELECTED PROJECTS

ETQ Reliance – Reliance component developer, Java, JSP, Servlet, XML, Python

### FREELANCE

Aug 2007 – Dec 2010

### SOFTWARE DEVELOPER

#### WEB SITES, WINDOWS FORM, DESIGNER, SRS WRITER

Working with 25+ Freelance Projects While doing my Bachelor in University.  
ASP.Net, JSP, PHP, C++, JavaScript, HTML, and CSS, SQL, Oracle 11g, Basic SOAP.



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## TECHNICAL AND BUSINESS BACKGROUND

Familiar with Vast Array of Tools, Programming Languages, Concepts and Technologies, Including:

- Object Oriented Analysis & Design.
- Strong Object-Oriented Programming Knowledge.
- Oracle Fusion Middleware.
- Java Technology J2EE-Java Servlet/JSP.
- PHP and MySQL.
- Google API.
- AJAX Toolkit.
- UML and Data Modeling.
- Software Design Patterns.
- Microsoft Hyper-V, VHD, VMware, Virtual PC
- XML and XML Parser (DOM, SAX, STAX).
- RDBMS 'Oracle 11g, MySQL, Microsoft SQL Server'.
- IIS, Apache, and Tomcat Web Server.
- Source Code Control and Versioning (TFS & SVN).
- JavaScript-XML-JSON- jQuery-AJAX- HTML5- CSS3.
- Windows Series 98-10.
- Ubuntu, Fedora, Solaris.
- Negotiation Skills.
- Training and Leading Skills.
- Presentation Skills.

## TOOLS

- Jupyter Notebook
- MS Visual Studio 2008 - 2019.
- PowerShell.
- Microsoft SQL Server 2008 - 2016.
- MySQL Workbench
- Oracle 11g SQL Developer.
- IBM Rational Rose.
- Eclipse - Net Beans IDE.
- UML Modeling – Microsoft Visio, IBM Rational Rose
- Service Model Metadata Utility Tool SvcUtil.
- Weka - Oracle Data Miner.
- Adobe Products (Dreamweaver, Illustrator, Photoshop, Flash).

## TECHNOLOGY

- Active Directory DS, DNS, DHCP, CA, ADFS
- Lync Server 2013 Installation, Configuration and Troubleshooting.
- .NET Framework 3.0 to 4.5.
- Visual Studio 2008-2015.
- SQL Server 2008-2012.
- Web Services and WCF.
- Microsoft Silverlight and WPF.
- IIS installation, Configurations and Troubleshooting.
- MS Office Suite: Word-PP-Project-Visio-Outlook-InfoPath-OneNote.
- SharePoint REST OData.
- SharePoint JSOM.
- Variation, Resources and Localization.
- 2010 FAST Search and 2013 Search Server.
- Installation, Configuration, Upgrade, Deployment.
- Architecture, Metadata, Content Management, Collaboration.
- Master Pages, Content Types, Features.
- InfoPath, Excel, PowerPoint Services.
- Query Data Using CAML and LINQ to SharePoint.
- Master Pages, Page Layout, Navigation, Themes.
- External Collaboration Toolkit for SharePoint,
- Administrative Tasks.
- Microsoft Certification Authority
- Microsoft Hyper-V and VHDs.
- Windows PowerShell.
- Windows Server 2008-2012.
- Microsoft VPN Servers installation, Configuration
- Windows Series 98-10.
- Microsoft SignalR.
- TFS Installation and Configuration.
- LINQ and Entity Framework.
- SharePoint CSOM.
- Microsoft SharePoint Server 2010 - 13.
- Customization, Site Templates, Site Definitions.
- SharePoint Designer 2010 - 13, InfoPath, Visio, Project.
- SharePoint 2010 - 13 Administration.
- Stsadm and SharePoint PowerShell API.
- Windows Workflow Foundation.
- Integrating Silverlight.
- Toolbar and Ribbon Controls.
- Integrating Charts and Maps.
- Forms Services and InfoPath.
- Custom Features, Site Template, Site Columns, List Definition, Events ...

## REFERENCES

### Education References:

- **Dr. Izzat Alsmadi** | Assistant Professor | Texas A&M University San Antonio | [alsmadi@gmail.com](mailto:alsmadi@gmail.com) | Mobile: (908) 972-6299.
- **Dr. Kamal Nasr** | Assistant Professor | Tennessee State University | [kalnars@tnstate.edu](mailto:kalnars@tnstate.edu) | Mobile: (575) 650-3718.
- **Dr. Mohammed Al-Kabi** | Assistant Professor | Al Buraimi University Collegel | [mohammednajiask@gmail.com](mailto:mohammednajiask@gmail.com) | Mobile: +962795189632.

### Work References:

- **Samar Abdel Jaber** | Regional ESA Manager | EXCEED – UAE | [Samarja@exceedgulf.com](mailto:Samarja@exceedgulf.com) | Mobile: +971502129936.
- **Muhammad Awais** | Technical Team Leader | EXCEED – UAE | [Muhammadaw@exceedgulf.com](mailto:Muhammadaw@exceedgulf.com) | Mobile: +971556270598.
- **Raed Malak** | Chief Technology Officer | KaizenPlus Software | [rmalak@kaizenplus.com](mailto:rmalak@kaizenplus.com) | Mobile: +962795016435.
- **Imad Al Qasem** | Project Manager | Ministry of Education – UAE | [Samarja@exceedgulf.com](mailto:Samarja@exceedgulf.com) | Mobile: +971553075855.

### Social Reference:

- **Ramy A Sallal** | Brother | Project Manager | Eyevis Mena | [sallal.ramy@gmail.com](mailto:sallal.ramy@gmail.com) | Mobile: +962795523063



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