

MOHAMAD A. SALLAL

PhD Student . Sr. Software Engineer . Data Scientist . Author

Nashville, TN - USA

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SUMMARY

- Skilled software engineer, with over 11 years of experience making key contributions to top-performing development teams.
- Specialist in OCR, Image Classification and Extraction using Tesseract and Kofax TotalAgility, Kofax Capture, Kofax Transformation Modules and Kofax Transformation Toolkit
- Specialist in RPA and Process Automation using Automation Anywhere and Power Automate
- Strong knowledge in deep learning, machine learning, OCR, RPA, and process automation
- Exceptional knowledge of machine learning, OCR, Kofax TotalAgility, SharePoint, C#, C++ ASP.NET, Python, SQL, 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.
- Expert in design, development and support of applications using Kofax Capture, Kofax Transformation Modules and Kofax Transformation Toolkit
- Excellent problem solving and debugging skills
- Reliable, resourceful, and efficient team player, able to adapt new technologies and handle tight schedules
- Trained in project management processes and body of knowledge areas with full project implementation.

PROFESSIONAL CERTIFICATION

- Automation Anywhere Certified Advanced RPA Professional **AUTOMATION 360 – 2022** [link here](#)
- **KTA_CC_C#7.70: KOFAX TOTALAGILITY 7.7 COGNITIVE CAPTURE** [Click to view](#)
- **EX-TA-ESS-076: KOFAX TOTALAGILITY 7.7 ESSENTIAL** [Click to view](#)
- **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**
2ND 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

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 α Trace – [IEEE BIBM-2020](#)
- Protein Secondary Structure Prediction with Ensemble Learning of 4 Different Machine Learning Models
- Protein Tracing C α Geometric Calculation by using the XYZ Coordinate of C α

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 α Trace" [IEEE BIBM-2020](#) International Conference on Bioinformatics and Biomedicine 2020 [December-2020](#) - [Click to view](#)



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PROFESSIONAL EXPERIENCE

FEDEx SERVICES

Since Jun 2021

Sr. TECHNICAL ANALYST

Design, Develop and Support FedEx OCR Project using Kofax TotalAgility, Bot Automation and Solution Architecture

- OCR, Image Classification and Extraction using Kofax Capture, Kofax Transformation Modules and Kofax Transformation Toolkit
- Process Automation with Power Automate and Automation Anywhere **AUTOMATION 360**
- Manage the design, development and deployment of Azure solutions using Microsoft Azure Infrastructure as a Service (IaaS) platform

CONTACT INFO:

FedEx Services – Collierville, TN, 38017

elanguovan.loganathan@fedex.com – (901) 610-8156 – www.fedex.com

TENNESSEE STATE UNIVERSITY PART TIME LECTURER

Since Aug 2022

ADJUNCT TEACHER – PART TIME

Teaching two courses of Computer Organization and Architecture at TSU CS department

CONTACT INFO:

Tennessee State University – Nashville, TN, USA

Ali Sekmen asekmen@tnstate.edu – www.tnstate.edu

TENNESSEE STATE UNIVERSITY GRADUATE ASSISTANT

Jan 2020 – Jan 2021

MACHINE LEARNING- BIOINFORMATICS RESEARCH ASSISTANT

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

CONTACT INFO:

Tennessee State University – Nashville, TN, USA

Kamal Nasr kalnusr@tnstate.edu – (575) 650-3718 – 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 +971 50 986 0861 – 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 - MOE merge – Merge Ministry of Higher Education with Ministry of Education, 27 critical system with different technology
- SSO – MOE Single Sign-On with ADFS and SAML 2.0 for onsite access
- Intranet Portal – building 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 +971 56 6862225 – 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, Customized 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 +971 56 6862225 – www.moheer.gov.ae

KAIZENPLUS

Jun 2011 – 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

- CMS – Custom CMS for DHA Dubai health authority and Ministry of Culture using ASP.NET, SharePoint, SOAP, OData
- e-Services – Custom e-Services for GASCO and Ministry of Finance using latest SharePoint, SignalR, and Nintex workflow engine
- 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 – 00962 79 5523063 – www.KaizenPlus.com

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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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 2nd COMPETITION WINNER** MENA Collegiate Programming Contest, at **Prince Sumaya University for Technology**.
- 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.

TECHNICAL AND BUSINESS BACKGROUND

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

- Strong Machine Learning Knowledge
- OCR, Image Classification and Extraction
- NumPy, Pandas DataFrame, Matplotlib
- Ensemble Learning, Voting, Bagging and Boosting
- Data Analysis, Preprocessing
- iSCSI, Virtual Switch, DDNS
- UML and Data Modeling
- Docker Containers, VMs
- Microsoft Hyper-V, VHD, VMware, Virtual PC
- Object Oriented Analysis & Design
- OmniPage, FineReader, Tesseract
- Decision Tree, SVM, Random Forest, XGBoost
- RPA and Process Automation
- 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, Ubuntu, Fedora
- Negotiation and Presentation Skills
- Training and Leading Skills

TOOLS AND TECHNOLOGY

- .Net, C++, Python, Assembly
- Jupyter Lab and Jupyter Notebook
- VSCode, MS Visual Studio, Qt Creator
- PowerShell, Bash, PuTTY
- Microsoft SQL Server, MySQL, Oracle SQL Developer
- MS Office, Visio, One Note
- Active Directory DS, DNS, DHCP, CA, AD FS
- Power Suit, Power Apps, Power Automate
- Network Tracing tool, Wireshark, Fiddler
- 3D Printing, Fusion 360, Cura
- 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)
- Software Design Patterns
- Protein Database PDB, Chimera
- GitHub, Gitlab
- Postman, SoapUI

REFERENCES

Education References:

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

Work References:

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

Social Reference:

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



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