



# Mohammed El-Said Mohammed Moussa, PhD

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## ABOUT ME

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Mohammed is a passionate professional Software Engineer and Technical Software Architect, with 18+ years of career. he worked on a wide variety of projects with a wide variety of people from different cultures and backgrounds. throughout his career, he worked for many Software companies, He also founded and managed his own startup software house. he holds a master's degree in Image Processing and a PhD. Degree in Natural Language Processing.

## EDUCATION AND TRAINING

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### 03/2019 **PhD in Computer science**

*Faculty of Computers and Artificial Intelligence, Helwan University*

**Field(s) of study:** Natural Language Processing

**Thesis:** Sentiment Analysis Approach for Social Media

**Keywords:** Sentiment Analysis, Opinion Summarization, Social Media Analytics.

**Description:**

- Three approaches for dealing with sentiment analysis task:
  1. Lexicon-based approach with 81.62% accuracy.
  2. Hybrid (Lexicon-based + Machine Learning) with 91.38% accuracy.
  3. Hybrid (Lexicon-based + Machine Learning + Semantic) with 92.81% accuracy.
- Abstractive Opinion Summarizer, that mixes sentiment analysis with abstractive summarization.

**Tools:** Python, Scikit-Learn, Keras, TensorFlow, HTML, JS, CSS

### 06/2012 **Masters in computer science**

*Faculty of Computers and Artificial Intelligence, Helwan University*

**Field(s) of study:** Image Processing

**Thesis:** Automated Periodontal Diseases Classification System

**Keywords:** Biomedical Image Processing, Digital Image Analysis, Epithelium Segmentation, Feature Extraction, Nuclear Segmentation, Periodontal Diseases Classification.

**Description:** An efficient and innovative system for automated classification of periodontal diseases, by using knowledge from the patients' clinical data, along with the features automatically extracted from the Haematoxylin and Eosin (H&E) stained microscopic images. The proposed system uses image-processing techniques based on color deconvolution, morphological operations, and watershed transforms, and Feedforward Backpropagation Artificial Neural Networks for the classification process. The proposed system reports 100% classification accuracy in correctly identifying the different periodontal diseases observed in the used 30 samples dataset.

**Tools:** MATLAB 7.11.0 (R2010b)

09/2001 - 05/2005 **BSc in Computer science**  
*Faculty of Computers and Artificial Intelligence, Helwan University*  
**Field(s) of study:** Computer Science  
**Final grade:** Excellent with Honor Degree

## WORK EXPERIENCE

09/2005 - Current

**Assistant Professor**  
*Faculty of Computers & Artificial Intelligence, Helwan University*  
<http://www.helwan.edu.eg>



**Name of unit or department:** Computer Science

**Business or sector:** Education

كلية الحاسبات والذكاء الاصطناعي  
Faculty of Computers & Artificial Intelligence



Fall / Spring 2019  
Fall 2020

**Part-time Assistant Professor**  
*Faculty of Pharmacy, Helwan University*



Fall / Spring 2020

**Part-time Assistant Professor**  
*Faculty of Commerce and Business Administration, Helwan University*



Fall / Spring 2020

Part-time Assistant Professor

Arab Academy for Science, Technology & Maritime Transport  
College of Computing & Information Technology – Smart Village



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport



**College of Computing & Information Technology - Smart Village**

Arab Academy for Science, Technology and Maritime Transport



08/2010 - Current

Co-Founder & Chief Technical Officer

Smart Pharaohs

<http://smartpharaohs.com>



Developing of many software solutions (desktop, mobile, and web); full software development life cycle from planning and analysis up to delivery, maintenance, and training.

- Visual Studio [2005, 2008, 2010, 2012, 2013, 2015, 2017, 2019, 2022] – [C# and VB.Net]
- SQL Server [2005, 2008, 2012, 2014, 2019]
- ADO.NET and ASP.NET
- WordPress, Joomla
- Image Processing using MATLAB

**Business or sector:** Information and communication

12/2021 – Present

Software Development Tech Lead

SingleClic Solutions

<https://singleclic.com/>



Working on GAHAR “General Authority for Healthcare Accreditation and Regulation” ePortal, which is a portal for government medical sector with partnership with Vodafone and certified by Egyptian Computer Emergency Response Team (EG-CERT). <https://www.gahar.gov.eg/>

Along with developing **desktop applications** for:

- Smart Pen Studio
  - Software package for authoring / using Neo Smart Pen technology for automating / digitizing all of paperwork. <https://neosmartpen.com/>

**Azure DevOps, Microsoft Teams, Git** were used for managing projects' sprints, monitoring/assigning tasks, reporting daily progress, and commutation with the team.

C# / MVC Core / EF Core / SQL / jQuery

**Business or sector:** Information and communication

09/2018 – 10/2020

Technical Software Architect

SYNC Solutions

<https://synceq.com/>



I led a team of fresh .net developers for developing a news content management system from scratch for powering a lot of newspaper websites which include:

<https://www.rosaelyoussef.com>

<https://elyamnelaraby.com>

<https://khabrabyad.com>

<https://live-sport.news>

Along with developing **desktop applications** for:

- Automated secured publishing
- Backing up and monitoring all files changes
- Archiving old news
- Publishing delayed news
- Crawling Matches dates and Egyptian premier league standings
- Release manager for publishing full/differential builds along with desired modules
- Migrating other websites to the new system using crawling

**Azure DevOps, Microsoft Teams, Git** were used for managing projects' sprints, monitoring/assigning tasks, reporting daily progress, and commutation with the team.

C# / MVC / EF / SQL / jQuery

**Business or sector:** Information and communication

11/2018 – 02/2019

**IT Consultant**

**Rabaa Hospital**



**Business or sector:** Human health and social work activities

03/2014 – 11/2014

**Senior Software Engineer**

**ThirdWayv Inc. (Cairo Branch)**

<https://www.thirdwayv.com>



THIRDWAYV

Many **Desktop, iPhone** Applications using C# / **Xamarin** for **Internet of Things** solutions.

**Business or sector:** Information and communication

05/2008 – 05/2008

**Instructor**

**New Horizons Computer Learning Center**



Teaching C# / OOP Courses

**Business or sector:** Education

02/2008 – 04/2008

**Instructor**

**Ministry of Military Production**



Teaching C# / OOP Courses for master's students

**Business or sector:** Education

02/2008 – 01/2021

**IT Consultant**

**Nile Company for consumer complexes**



**Business or sector:** Accommodation and food service activities

07/2007 – 08/2007

**Instructor**

07/2006 – 08/2006

**WAN Training Center**

Teaching C# / OOP / ADO.net / SQL Server Courses

**Business or sector:** Education

06/2006 – 06/2006

**Instructor**

**ORASCOM Telecom**



Teaching SQL Server Courses

**Business or sector:** Telecommunications

08/2005 – 12/2005

**Junior Software Engineer**

06/2004 – 09/2004

**Shadi Systems**

07/2003 – 09/2003

<http://www.shadisys.com>



Desktop Applications, Pocket PC / Tablet PC Applications, Web-Based / Web-Enabled Applications. Visual C#. Net, SQL CE, SQL SERVER, ADO.NET and ASP.NET.

**Business or sector:** Information and communication

## LANGUAGE SKILLS

Mother tongue(s): **Arabic**

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>English</b> | C1            | C2      | C1                | C1                 | C2      |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## DIGITAL SKILLS

|                              |   |
|------------------------------|---|
| <b>Operating Systems</b>     | Windows / MacOS / Linux   |
| <b>Office Solutions</b>      | Word / Excel / PowerPoint / OneNote / Outlook   |
| <b>Programming Languages</b> | C / C++ / C# / VB.net / Java<br>ADONET / EF<br>ASP.NET / ASP.NET MVC / PHP<br>HTML/ CSS / JavaScript / jQuery / Angular<br>Apache Cordova / Xamarin<br>MATLAB / Python / BASH |
| <b>DBMS</b>                  | SQL / MySQL   |
| <b>CMS</b>                   | WordPress / Joomla  |
| <b>Science</b>               | Machine Learning / Artificial Intelligence / Data Structures / Data Science / Natural Language Processing / Image processing  |

## SOME PROJECTS

### Smart OMS

A Complete package for Operations Management Systems. Running in [Ghina for Pest Control, Termite Treatment - Saudi Arabia](#) and [Alsokkaria Group – Saudi Arabia](#)  
Visual Studio 2010, SQL Server 2005, C#.  
<http://smartpharaohs.com/smart-oms.aspx>

### Smart POS

A Complete package for Point-of-Sale.  
Visual Studio 2010, SQL Server 2005, C#.  
<http://smartpharaohs.com/smart-pos.aspx>

### Smart Accountant System

A Complete Package for Accountants, Including Sales, Purchases, Stocks, Suppliers, Customers, Stocks, & Accountants.  
Visual Studio 2008, SQL Server 2005, C#.  
<http://smartpharaohs.com/smart-broker.aspx>

### Smart Broker

A Program to handle all the data required by real estate brokers, customers, owners, estates, and contracts.  
Visual Studio 2008, SQL Server 2005, C#.  
<http://smartpharaohs.com/smart-broker.aspx>

### Smart Employees Fund

A Program to handle all the data required by companies, to record their employee's data, with their financial issues, fund contributions, payment of subscriptions.  
Visual Studio 2008, SQL Server 2005, C#.  
<http://smartpharaohs.com/smart-employees-fund.aspx>

### Smart Employees Evaluator

A Program to handle all the evaluations, qualifications, accomplishments, awards of the employees.  
Visual Studio 2015, SQL Server 2012, C#.

### Smart Contracts Organizer

A Program to handle all the contacts, installments, visits, employees, technicians, for pest control companies.  
Visual Studio 2015, SQL Server 2012, C#.

### Smart Payroll

A Program to handle all Payroll related data, such as Employee's data, branches, jobs, salaries, taxes, attendance, vacations, and permissions.  
Visual Studio 2010, SQL Server 2005, C#.

### Smart Seller

Accounting program to manage sales, expenses, items, customers, and stock with networking capabilities.  
VB.Net 2005, and MS Access.

### Smart Mixer

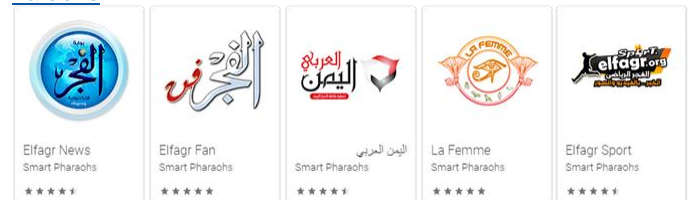
A program to manage all data related to the mixer company like clients, drivers, cars, mixture types, and records, and generates reports about all detailed and totaled information.  
VB.Net 2005, and Access.

### License Plate Recognition

A System for recognizing Cars License Plate Numbers using MATLAB.

### Some Android Apps

I developed / designed some Android apps using Apache Cordova [HTML / JS / CSS], they are published on Google Play.  
<https://play.google.com/store/apps/developer?id=Smart%20Pharaohs>



### Some Personal Projects

- Smart Table Maker
- Smart Observers Organizer
- Virtual E-Learning University (with Exam Online Engine)
- The Reminder
- Database Attacher
- Time Sheeter

### Small Games

- Sudoku Solver
- Snake Game
- 15-Square Game
- Tetris
- Master Match (with 2-Players support via network)
- XO Game (with 2-Players support via network)
- Car Racing (using managed DirectX)

## PUBLICATIONS

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- 2020 **An Enhanced Sentiment Analysis Framework Based on Pre-Trained Word Embedding**  
International Journal of Computational Intelligence and Applications  
<https://doi.org/10.1142/S1469026820500315>
- 2019 **Sentiment Analysis and Opinion Mining: A hybrid Framework based on lexicon and Machine Learning approaches**  
International Journal of Computers and Applications  
<https://doi.org/10.1080/1206212X.2019.1615250>
- 2018 **A Generic Lexicon-based Framework for Sentiment Analysis**  
International Journal of Computers and Applications  
<https://doi.org/10.1080/1206212X.2018.1483813>
- 2018 **A survey on Opinion Summarization Techniques for Social Media**  
Future Computing and Informatics Journal  
<https://doi.org/10.1016/j.fcij.2017.12.002>
- 2012 **Automated Periodontal Diseases Classification System**  
International Journal of Advanced Computer Science and Applications (IJACSA)  
<http://thesai.org/Publications/ViewIssue?volume=3&issue=1&code=IJACSA>

## CERTIFICATIONS

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- ICDL: International Computer Driving License
- Communication Skills
- Communication Skills in different Education Styles
- Effective Presentation Skills
- Self-Evaluation
- Research Team Management
- Conference Organization
- How to Compete for a Research Fund
- Local and Global Competitive Research Projects
- International Publishing of Research
- Academic Advising
- Legal Aspects in University Business
- Organizing Scientific Conferences

## HONOURS AND AWARDS

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May 2012



Microsoft

**First Place Award** in **Microsoft Windows Developers Conference** which held in Four Season Hotel, Cairo, on 14, 15 May 2012, (Corporate Social Responsibility Competition) for the program “**Children Education Helper**” which targets the Education cause by allowing two children to enhance their mathematical abilities by competing together using windows 8 slate to solve mathematical puzzle game. [using Visual Studio 2012 Beta + Windows 8 Platform]. Prize: “**Samsung Netbook**”

Feb 2012



Microsoft

**First Place Award** in **Microsoft Egypt phone camp** which held in Fairmont Heliopolis Hotel, Cairo, on 22, 23 Feb 2012, (Corporate Social Responsibility Competition) for the program “**Literacy Helper**” which targets the Literacy Cause by allowing anyone who can't read, to hear any text he/she wants to read, just by taking a photo to it using his/her camera in his/her windows phone 7 mobile. [using Visual Studio 2010 + Windows phone 7 SDK]. Prize: “**Xbox 360 with Kinect**”