

# MOHAMED ALI

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Senior software developer. Developing web applications using ASP.NET, PHP and Python since 2005. Developing NLP Machine Learning applications since 2015. Developing Systems Integration projects using Biztalk, JitterBit and Microsoft SSIS since 2018.

## EXPERIENCE

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### Senior Systems Integration Developer, American University in Cairo

August 2018 - Present

As an educational organization, the American University in Cairo utilizes many systems: Banner for students information, SAP as an ERP system, Blackboard and Moodle as a learning management systems and many systems. All these systems need to talk to each other. Our goal, in systems integration team, is to develop integration solutions that allow these systems to talk to each other smoothly.

#### Main Responsibilities:

- Architect, design and develop integration projects using Biztalk
- Architect, design and develop integration projects using Microsoft SSIS
- Design and develop integration projects using AxiomElite
- Develop integration projects using Jitterbit
- Design and develop REST APIs to enable integration among heterogeneous systems

#### Main Projects:

- Banner-Salesforce Integration: participated in developing an integration solution using Jitterbit to automate uploading graduating students' information from Banner to Salesforce
- Blackboard-Banner Integration: developed an integration solution to automate removing holds to allow registration on Banner as soon as students pass pre-defined exams on Blackboard
- Assistantship-Banner Integration: developed an integration solution to automate uploading Teaching Assistants information from Assistantship system to Banner

### Senior Web Developer, American University

November 2008 – July 2018

The software development team in the Arabic Language Institute was responsible for developing web application to over services for faculty, staff and students. These services were ranging from allowing students to take their placement exams remotely, allowing faculty to publish their educational materials online.

#### Main Responsibilities:

- Design and develop web applications using ASP.NET Web Forms
- Design and develop web applications using ASP.NET MVC
- Design and develop web applications using Drupal content management system
- Design, develop and manage SQL Server and MySQL databases

#### Main Projects:

- Online Exam System: participated in developing an online examination system to allow foreign students to take their placement exams remotely
- Asset Tracking System: participated in developing a system to track department computing equipments as printers, scanners, laptops and desktop computers
- Online Library: participated in developing a library website to allow faculty members to publish their educational materials online

### SQL Server Database Administrator, Minia University

November 2003 – November 2008

In Minia University, we were having a students affairs management system to keep all students information starting from registration till graduation. The system was having a SQL Server database. We were responsible for administering and maintaining this database.

## **Main Responsibilities:**

- Install and administer SQL Server databases
- Set backup and recovery strategy
- Add, remove and grant permissions to database users
- Create stored procedures, functions

## **EDUCATION**

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**American University, Master of Computing**

**2010 – 2015**

- GPA 3.76

### **Main Coursework:**

- Natural Language Processing
- Neural Networks
- Computer Vision
- Advanced Artificial Intelligence
- Data Mining

**Cairo University, Bachelor of Computers and Information**

**2010 – 2015**

- Grade: Very Good (79.5%)

### **Main Coursework:**

- Data Structure
- Operating Systems
- Pattern Analysis
- Speech Processing
- Image Processing

## **PUBLICATIONS**

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**Character-Level Convolutional Neural Network for German Dialect Identification**

**Character-level convolutional neural network for Arabic dialect identification**

**Character-level convolutional neural network for Indo-Aryan language identification**

- publication date: Aug 2018
- publication description: Proceedings of the Fifth Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2018)

## **SKILLS**

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- Programming Languages: C++, C#, Python, Java
- Web Development: ASP.NET, PHP, Flask, Django, HTML, CSS, Javascript, JQuery, Bootstrap
- Machine Learning: nltk, sklearn, keras, pytorch, tensorflow, numpy, matplotlib, pandas
- Systems Integration: Biztalk, Jitterbit, Microsoft SSIS, AxiomElite

## **AWARDS**

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**SPOT Award from American University in Cairo, September 2019**

**SPOT Award from American University in Cairo, October 2020**