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I am a big fan of software engineering in general and software architecture in particular.

Most of my experience is related to the development of challenging, evolutionary and flexible solutions. I worked a lot on projects based on .NET technologies, RESTful web services, Azure, Docker, Kubernetes and Sharepoint.



Mostefai Mohammed Amine

Senior Software Architect

Cerified Azure Developer



Experience in a nutshell

Senior Software Engineer

2021 | EPAM (USA)

Working for the account of TJX, a major retailer company in USA. The system was based on Azure functions, Cosmos DB, Blazor and Azure DevOps pipelines.

Senior Software Architect

2019 | HESP (Algeria)

Development of HIS, a job workflow management system. .NET Core(backend), Angular (Frontend) and Docker / Kubernetes (Deployment / Orchestration).

2018 | Renault (Algeria)

Development of vehicle tracking solution based on ASP.NET Core (backend), Angular (Frontend) and Azure (deployment, SQL Azure, Storage, Functions).

Senior Sharepoint Expert

2020 | SOFRECO (France)

Supporting the general finances inspection in the process of the redesign of their collaborative intranet portal

2018 | ENTP (Algeria)

Development of the public-facing website of the company which is based on Sharepoint Publishing

2017-2018 | SOFRECO (France)

Supporting the industry ministry in the process of deploying a statistics information systems based on Sharepoint

2016-2017 | IKMNET (USA)

Developing Sharepoint Tests for supporting the process of hiring Sharepoint 2013 developers

2015-2016 | GOPA (Germany)

Development and Deployment of intranet Sharepoint-based publishing and collaborative portals



Education in a nutshell

2020 | University of Houari Boumediene (Algiers)

PHD in Computer Science. Option: Software Engineering

2002 | University of Houari Boumediene (Algiers)

Master in Computer Science. Option: Software Engineering

1999 | University of Houari Boumediene (Algiers)

Computer Science Engineer.

Skills	Skill Category		Skill Sub-Category		Skill Rating				
	Category	Sub-Category	Item	Item					
Backend and Desktop Development	Backend Development	ASP.NET Core	ASP.NET Core	★ ★ ★ ★ ★	Azure Functions	★ ★ ★ ★ ★			
			ASP.NET Web APIs	★ ★ ★ ★ ★	Logic Apps	★ ★ ★ ★ ★			
			WPF	★ ★ ★ ★ ★	Windows Forms	★ ★ ★ ★ ★			
Azure Services	Azure Services	App Services	App Services	★ ★ ★ ★ ★	Azure Storage	★ ★ ★ ★ ★			
			App Insights	★ ★ ★ ★ ★	Azure VMs	★ ★ ★ ★ ★			
			Azure Automation	★ ★ ★	Front Door	★ ★ ★ ★ ★			
		API Management	★ ★ ★ ★ ★	Container Registry	★ ★ ★ ★ ★				
		Container Instance	★ ★ ★ ★ ★	Kubernetes Services	★ ★ ★				
		Key Vault	★ ★ ★ ★ ★	App Configuration	★ ★ ★ ★ ★				
		Frontend Development	Frontend Development	Blazor	Angular	★ ★ ★ ★ ★	Blazor	★ ★ ★ ★ ★	
					Azure DevOps	★ ★ ★ ★ ★	GitHub	★ ★ ★ ★ ★	
					GitHub Actions	★ ★ ★ ★ ★	Docker	★ ★ ★ ★ ★	
DevOps	DevOps	ARM Templates	Kubernetes	★ ★ ★	ARM Templates	★ ★ ★ ★ ★			
			Biceps Templates	★ ★ ★ ★ ★					
			Data and Integration	Data and Integration	SQL Server	SQL Server	★ ★ ★ ★ ★	Cosmos DB	★ ★ ★ ★ ★
						MongoDB	★ ★ ★ ★ ★	Data Factory	★ ★ ★
						MySQL	★ ★ ★ ★ ★	Oracle	★ ★
SQLite	★ ★ ★ ★ ★	Reporting Services				★ ★ ★ ★ ★			
Analysis Services	★ ★ ★	Integration Services				★ ★ ★ ★ ★			
Messaging	Messaging	Event Hub	Service Bus	★ ★ ★ ★ ★	Event Hub	★ ★ ★			
			Event Grid	★ ★ ★	Rabbit MQ	★ ★ ★			
			Portals and Collaboration	Portals and Collaboration	Sharepoint Online	Sharepoint	★ ★ ★ ★ ★	Sharepoint Online	★ ★ ★ ★ ★
Office 365	★ ★ ★ ★ ★								
Mobile Development	Mobile Development	Android				Xamarin	★ ★ ★	Android	★ ★ ★
			C#	★ ★ ★ ★ ★	TypeScript	★ ★ ★ ★ ★			
			JavaScript	★ ★ ★ ★ ★	C++	★ ★ ★			
Software Design	Software Design	Enterprise Architect	UML	★ ★ ★ ★ ★	Enterprise Architect	★ ★ ★ ★ ★			
			Visio	★ ★ ★ ★ ★					
			Project Management & Agile Methods	Project Management & Agile Methods	Kanban	Scrum	★ ★ ★ ★ ★	Kanban	★ ★ ★ ★ ★
MS Project	★ ★ ★ ★ ★	Project Server				★ ★ ★ ★ ★			
Trello	★ ★ ★ ★ ★	JIRA				★ ★ ★ ★ ★			
Confluence	★ ★ ★ ★ ★								
Software Quality	Software Quality	JUnit	NUnit	★ ★ ★ ★ ★	xUnit	★ ★ ★ ★ ★			
			Moq	★ ★ ★ ★ ★	Selenium	★ ★ ★			
			Security	Security	OAuth 2.0	Azure AD	★ ★ ★ ★ ★	OAuth 2.0	★ ★ ★ ★ ★
Business Analysis and Enterprise Architecture	Business Analysis and Enterprise Architecture	TOGAF				BPMN	★ ★ ★ ★ ★	TOGAF	★ ★ ★
						Archimate	★ ★ ★ ★ ★		
Mostéfaï Mohammed Amine									

2021

Information System Cloud Migration | TJX (USA)

The mission is about the modernization of the existing information system and migrating it to the cloud. The backend is based on Azure .NET Functions and the clients include a WPF heavy client and blazor web-based client. Security is based on Azure Active Directory. CI/CD is implemented using Azure DevOps.

Development of a ASP.NET Core 5 Automated Hiring Tests | IKMNET (USA)

The project was about the authoring of tests used to hire ASP.NET Core 5 developers. The result contained about 150 questions with three different levels covering several topics such as ASP.NET Core middleware, Razor views, Web APIs, security, page models and routing.

Information System Design | IGF (Algeria)

The main outcome of the mission is the development of an integrated information system for the General Finances Inspection. The mission included several trainings (TOGAF + Archimate, Agile development, BPMN), the modeling of the existing information system architecture and the design of the future integrated information system.

Collaborative System Design | IGF (Algeria)

My main contribution during this mission is to support the IGF (General Finances Inspection) IT teams in the redesign of their existing intranet portal according to the company strategy and requirements. One of the main deliverables of the mission is a specification document for the future intranet portal.

2020

Development of a Sharepoint Developer Automated Hiring Tests | IKMNET (USA)

This mission is about the upgrade of the existing questions to match Sharepoint 2016. The main output is the development of about 200 questions related to various Sharepoint 2016 knowledge areas.

Information System Audit | AGRODIV (Algeria)

This mission is about the audit of the information system of the company at the following dimensions: process- es, organizations, human resources, connectivity, hardware, software and communication.

HESP Integrated System | HESP (Algeria)

HIS is a job workflow management system dedicated for the management of oil & gas logging jobs. HIS manages all the job lifecycle from the preparation (assignment of tools and crew) to the review. HIS is based on .NET Core, Angular, SQL Server, Docker and Kubernetes.

2019

Information System Department Reorganization | Air Algérie (Algeria)

My main contribution at Air Algeria was the elaboration and the application of an operational organization which support the evolution of the company. The reorganization had started with an audit and led to a formalization of the processes of the IT department (with a focus on development processes) and the integration of new profiles such as DevOps engineers.

Renault Agent Portal | Renault (Algeria)

The Renault Agent Portal is a web application for the Renault commercial network. It is composed of two main modules : the Renault module and the network module. The network module has for role to sell and preorder vehicles while the Renault module is used to inject stock, assign vehicles and validate orders. The architecture is based on backed wtitten in ASP.NET Core web APIs and a frontend based on Angular and Typescript.

Link : <http://portailvn.renault.dz/>

Information System Audit | Algérie Poste (Algeria)

The purpose of the project was to audit the integration of two complex systems : a core banking system and a monetary solution linked by an applicative gateway. The audit has led to several findings such as the discovery of several bugs and performance issues. The audit report has also included a set of recommendations to ameliorate the systems integration.

Renault Quality Portal | Renault (Algeria)

Development of a portal which targets the quality of vehicle delivery. The portal which is used by the Renault Algerian network is developed using the technologies : .NET Core 2.2, Angular (Typescript) and Microsoft Azure. The architecture includes also automated jobs based on Azure web jobs.

Link : <http://portailqualite.renault.dz>

Portfolio (2)

2018

Information System Cartography | Algérie Poste (Algeria)

The purpose of the project is to perform an enterprise architecture cartography including the infrastructure, application and business layer. As a team leader, I was responsible of a team composed of 4 collaborators. Using a TOGAF-based methodology and Archimate as formalism, we have identified and analyzed about 130 applications and modeled their interactions.

ENTP Web Portal | ENTP (Algeria)

Development of the Sharepoint 2016 based ENTP website which uses technologies such as webparts, server-side development and client-side development.

Link : <http://entp.dz>

2017

Development of a Sharepoint Developer Automated Hiring Tests | IKMNET (USA)

Development of a hiring test related to Sharepoint Development. The test which is composed of about 180 questions (with three different levels of difficulty) covers various topics such as Client-Side programming, Server-Side programming, Security and Workflows.

Statistics Intranet Portal | Ministry of Industry (Algeria)

Analysis, design and implementation of an integrated information system for the industry statistics based on Sharepoint 2013. The mission is structured in three phases: phase 1 : diagnostics, phase 2 : deployment and phase 3 : integration and supervision.

2016

Integration of the billing system with mobile operators messaging systems | SEAAL (Algeria)

The mission consisted in designing and developing restful web services using ASP.NET web APIs. The web services aim to integrate the billing system of SEAAL with local mobile operators messaging systems. The REST web services has been validated using four heterogeneous clients: a web client (JQuery), a web client (Angular JS), a desktop client (WPF) and an Android client. I have used OAuth to secure the web services.

2015

Implementation of a Sharepoint collaborative portal for the training management | ANEM (Algeria)

The mission consists in implementing the training business processes and handle the training lifecycle by using Sharepoint 2013 collaborative portals, workflows, RESTful web services and Office documents generation.

Deployment and Development of an Intranet Portal based on Microsoft Sharepoint | ANEM (Algeria)

The mission is managed by PASEA (European Union) and GOPA (Germany). The objective is supporting the employment agency ANEM in the processes of designing, developing and deploying a publishing portal that acts as a centralized intranet that provides news, polls, documents, announcements and events about the agency. This portal provides also a centralized access to external content using the business connectivity service.

2014

Technical Team Coaching | (AGB | Algeria)

In collaboration with Microsoft teams, the mission consisted in defining the development process, the system architecture and monitoring the development teams with the purpose of the implementation of the new Core Banking system which is fully based on Microsoft technologies such as SQL Server and .NET Framework.

Deploying a multi-tier Sharepoint 2013 Farm with Project Server 2013 | Ooredoo (Algeria)

The farm consists of two data-tier (Always On), one application tier, one search tier and two web front tiers. In addition, deploying a project server application on this farm

Deploying a multi-tier Sharepoint 2013 Farm | Chambre de Commerce (Algeria)

The farm consists of one data-tier, one application tier, one web front tier and one office web application tier

Audit of the information system migration CFP | Sonatrach (Algeria)

Auditing the specifications document, which concerns upgrading the information system of Sonatrach.

2013

.NET Technologies Training Sessions | AGB (Algeria)

The mission consists in training the AGB teams on the most important .NET technologies such as ASP.NET, Entity Framework and WCF

ASP.NET MVC Training Sessions | Djezzy (Algeria)

Developing web applications with ASP.NET MVC

2012

Training sessions on .NET Framework and Sharepoint | BNA (Algeria)

Sharepoint Administration training.

Deployment of .NET smart cards | Cevital (Algeria)

Deployment of smart card based active directory authentication.

2010

Healthcare identity card deployment | Gemalto (France)

Deployment of the Chifa Solution based on Gemalto Identity Smart Cards

2021

Senior Software Engineer | EPAM (USA)

As a software engineer, my mission is to help EPAM clients to address modern challenges using Microsoft technologies such as .NET and Azure.

Information System Expert | SOFRECO (France)

As an expert in IS and collaborative portals, my role in this mission was to support the Algerian general finances inspection in the process of designing an integrated information system and a collaborative portal.

2020

Information System Expert | AGRODIV (Algeria / USA)

My mission at AGRODIV consists in auditing the existing information system and formalizing the appropriate recommendations for the evolution of this IS.

Senior Software Architect | HESP (Algeria / USA)

My mission at HESP consists in designing and developing an integrated system that supports logging and perforating services of the company. The system is based on modern technologies such as .NET Core, Angular and Docker.

2019

Enterprise Architect | Air Algérie (Algeria)

My mission at Air Algérie was to reorganize the IT department in order to ameliorate the quality and the productivity of development teams. The main objective was to integrate the best organizational and architectural practices within the development activities.

Cloud Architect | Renault (Algérie)

My mission at Renault was to design and deploy several systems (Vehicle Tracking, Vehicle Ordering) based on Microsoft Azure, ASP.NET Core and Angular.

2018

Team Leader | EADN (Algeria)

My mission at EADN was to elaborate the information system cartography at the applications level. The applications architecture was designed using TOGAF and Archimate and was produced by my team which was composed of four members.

Sharepoint Architect | ENTP (Algeria)

My mission at ENTP (which is an oil & gas company) was to develop the public-facing website which is based on a Sharepoint 2016 publishing site.

Sharepoint Development Test Author | IKM TechCheck (USA)

My principal mission was to author tests for the process of automatic evaluation of Sharepoint 2013 developers. The authoring consisted in writing about 200 questions belonging to 15 different topics and having three levels of difficulty. I worked on a second mission in 2020 related to the upgrade of the questions to SP 2016.

2017

Senior Sharepoint Consultant | SOFRECO (France)

My mission was to design and implement a statistics integrated information system based on Sharepoint 2013. The system includes an intranet publishing portal and data integration gates with external solutions.

Software Architect | SEAAL (Algeria)

The project was about an SOA-based solution that integrates the company's information system with mobile operators in order to provide a new mobile-based billing system. To promote the APIs, a certain number of clients have been delivered such as the android mobile client and the angularjs-based web client.

2016

Senior Expert in Sharepoint and Collaborative Systems | GOPA (Germany)

The mission consisted in the planning and the implementation of an intranet portal based on Sharepoint 2013. The target was ANEM, the Algerian national agency for employment. My expertise was to structure the project and to coach a team of two developers in Sharepoint development technologies. The portal included a publishing portal and a hierarchy of collaborative sites for the different departments of the Agency.

2014

Software Architect | AGB (Algeria)

My mission at AGB consisted in supporting the development teams in the following areas: architectural design, technical problem solving and methodological organization. In this project, I worked in collaboration with the consultants of Microsoft and the internal agile-organized teams in order to provide the necessary support to a very important development project. The project consisted in modernizing the information system by using the latest Microsoft technologies. My interventions occurred at various levels: SQL Server as a database server and Microsoft .NET development for the core banking system.

Sharepoint Architect | IB Solutions (Algeria)

The main objective of my missions at IBS was to deploy and to configure a Sharepoint 2013 farm at Ooredoo, which is one of the biggest mobile operators in Algeria. The farm was based on an Always-On database layer, an application server, a search server and two web front servers. The mission consisted also in deploying Project Server 2013 on this farm.

Sharepoint Architect | CMI (Algeria)

The mission consisted in supporting the IT team of the hydraulic resources ministry in the activities related to maintaining the Sharepoint 2010 intranet portal.

Trainer | IT Comp (Algeria)

My collaboration with IT Comp was based on short training sessions in domains related to various Microsoft .NET Technologies such as C#, Visual Studio, WPF, ASP.NET and Sharepoint

Technical Coach | ANPT (Algeria)

The coaching consisted in accompanying emerging Algerian startups to develop and implement their innovative products / services to market. My main contribution was to discuss and give advice on the technical aspects of the projects

Lecturer | Incubation Manager | Trainer | Higher School of Computer Science (Algeria)

My principal teaching missions at ESI relate to software engineering, project management, agile development, web and mobile development. As a manager of the FIE (The Entrepreneurship Branch), I coordinate and supervise the innovative ideas brought by students in their last year and support them with the pre-incubation program.

Chief-Technology Officer | OBP Technologies (Algeria)

My mission at OBP consisted in managing and coordinating IT projects in offshore mode and using Microsoft .NET Technologies

Chief-Technology Officer | Tesiame SPA (Algeria)

As a CTO, my main mission at Tesiame was to manage and to coordinate IT projects in the domain of smart cards. Our projects were in the scope of the partnership of Tesiame with Gemalto, which is the world leader in the domain of smart-card based security. Our main project was the deployment and the support of the smart card CHIFA, which is a healthcare identification smart card owned by the insurance national company CNAS

Chief-Technology Officer | Iqualix (France)

My mission at Iqualix was to manage a team of developers and IT professionals and a portfolio of outsourced projects in the domain of healthcare. The team was developing and maintaining healthcare system embedded in specific smart card readers destined for the French card «Carte Vitale»

Technical Consultant | Engineering Energy LTD (France)

Development of energy software solutions for a French engineering company

Developer | CERIST (Algeria)

My main mission at CERIST was to ensure the development, the deployment and the management of a library management system called SYNGEB, which was deployed in almost all national libraries.

2012

2011

2009

2008

2005

2001

Certificates

Microsoft Azure Developer Associate

https://www.credly.com/badges/33389eec-10a5-4be2-b49c-5c8c5f4d6f0d/public_url

Microsoft | 2022



Azure Fundamentals

https://www.credly.com/badges/33389eec-10a5-4be2-b49c-5c8c5f4d6f0d/public_url

Microsoft | 2021

Education



PHD in Computer Science : Option Software Engineering

USTHB | Algeria

Incubation Manager

INSA Lyon | France

Certificate of Trainer in ASP.NET Web Development

Higher School of Computer Science | Algeria

Certificate of Trainer in Sharepoint and .NET Technologies

IT COMP | Algeria

Certificate of Protiva Sales Solutions

Gemalto | France

Certificate of Protiva Integrator

Gemalto | France

Certificate of English Language | Level 16 (Business II)

ALC | Algeria

Certificate of Trainer in Web and Information Systems

AUF | Canada

Master in Computer Science : Option Software Engineering

USTHB | Algeria

Engineer in Computer Science : Option Software Engineering

USTHB | Algeria

Awards



EADN, Consultant of the Year

Slideshare 1% best worldwide viewed presentations

SlideShare most viewed presentations (35000 views)

Languages

English
Arabic
French
Spanish

Reading	Writing	Speaking
★★★★★	★★★★★	★★★★★
★★★★★	★★★★★	★★★★★
★★★★★	★★★★★	★★★★★
★★★★★	★★★★★	★★★★★