

A highly experienced mobile Architect/Principal Consultant with significant experience with C++ and solid object-oriented design skills. I have over 12 years of experience in architecting, designing, leading and developing large IT systems. Recently, I have been working on developing IOS and Android applications using various development tools.

My strong analytical and technical skills, ability to understand client requirements have been instrumental in architecting, designing and implementing and delivering mobile applications.

My creativity, ability to solve complex technical problems enabled me to design and develop complex applications such as a complete Arabic Optical Character recognition (OCR) engine that delivers over 95% recognition accuracy.

I began my IT career as a software developer in Egypt, following graduation. Three years later I moved to the Kuwait taking up C++/Mobile developer position on many projects in Kuwait. Since then I have been working with mobile development tools and now I am skilled to the highest level in C++ and mobile application development and have been providing technical leadership for senior project consultants in this domain for the last three years.

Achievements

- A side to my daily job, I have created [Bare'a](#) by adapting and reconstructing some modules of "[Tesseract 2.0](#)" Optical Character recognition (OCR) engine to allow the recognition of Arabic language (complex connected script) that delivers over 95% recognition accuracy.
- Designed and implemented a number of highly visible mobile projects

Academic Qualifications:

- BSc Computer Science - Ain Shams University (Cairo, Egypt)

Certifications:

- ITIL® Foundation Certificate in IT Service Management
- Certified ScrumMaster®

Experience

- 12 years of IT experience in corporate environments
- More than 10 years of experience in C++ programming
- Substantial experience in algorithms design and implementation
- Thorough understanding of object orientated design principles and computing fundamentals
- Experience in designing and implementing Distributed and multi-threaded systems
- Experience in OCR technology, Image processing and pattern recognition
- Experience in working with Hardware I/O (USB, COM, LPT), sockets, network communication protocols
- Experience in working with Cryptography, software copy protection, smart-cards
- Experience in software architecture, design, coding, integration and testing.
- Extensive technical experience in project delivery and/or systems engineering in large environments

Technical Skill Set

- Expert in C++ programming, Object Oriented Design, and Design Patterns, REST, JSON and XML.
- Strong Object-oriented design and programming skills
- Strong analytical skills with meticulous attention to detail
- Expert in developing using Web service integration (SOAP, REST, JSON, XML)
- Expert in integrating with social media APIs (Facebook API v2, Twitter API v1.1)
- Expert in working with GPS and Google MAP API 2
- Expert in iOS SDK (UIKit, Cocoa Touch, Core Data, Core Location, etc) and Android SDK
- Expert in working with notification services (Apple Push Notification (APN), Google Cloud Messaging for Android (GCM))
- Expert in XCode and development using Eclipse IDE
- Good Knowledge in SQLite, MySQL or similar database systems

Technical Skills:

Mobile Application Development	Crystal Reports	VB, ASP
XCode /iOS SDK (UIKit, Cocoa Touch, etc)	Sockets and Serial port	Database Platform
Eclipse IDE / Android SDK	Programming	IBM DB2
Web service (SOAP, REST, JSON, XML)	J2EE	SQL Server 2005, SQL 2008
Social media APIs	Microsoft .Net Platform (VB.NET, C#.NET, ASP.NET)	Oracle DB
Notification services (APN, GCM)	C++ , Java	PL SQL
GPS Location/Google MAP APIs	XML, XSLT, XPATH	
Desktop Application Development	Web Services	
Windows desktop applications using Microsoft .Net platform.	JavaScript, AJAX and HTML.	
ADO.Net /Oracle ODAC	MASM Assembly	

Employment History**Beshara Group: June 2004 – present**

Organisation	Civil Service Commission (CSC) Kuwait
Position	Mobile Application Technical Lead
Project	Mobile app (iOS, Android, Windows Mobile) for the employment service in Kuwait. The App allows new graduates to register for employment with Kuwait government and select their favourite jobs from a list of available jobs.
Responsibilities	<ul style="list-style-type: none"> • Design the architecture of the cross platform app. • Model and implement the back-end Web Service which integrates with the existing Enterprise HR system. • Provide the design details of the UI screens • Lead the development stream • Contribute to the development of some of the modules

Organisation	Civil Service Commission (CSC) Kuwait
Position	Solution Designer and Senior Programmer
Project	IVR Service: A complete inbound IVR system that provides several services for CSC' employees.
Responsibilities	<ul style="list-style-type: none"> • Design the IVR system structure • Design and implement a back-end module in C++ to interface with the Oracle enterprise APIs. • Design and implement the system level interface to directly interface with Intel Dialogic SDK and drivers. • Construct a real-time service high availability to serve hundreds of concurrent callers.

Organisation	Ministry of communication (MOC) Kuwait
Position	Solution Designer and Senior Programmer
Project	Automatic activation/deactivation service that capable of sending direct commands to: Ericsson IP-based and R323-based exchanges, Siemens exchanges, Huawei exchanges, and ZTE exchanges.
Responsibilities	<ul style="list-style-type: none"> • Design the solution architecture. • Work with Ericsson, Siemens, Huawei engineers and architects to understand how to communicate with each system and develop the appropriate interface • Build interface units for each exchange type. • Lead a team of developers to implement the solution using Microsoft Visual Studio .Net.

Organisation	Ministry of Health (MOH) Kuwait
Position	Solution Designer and Integration Specialist
Project	<ul style="list-style-type: none"> • Connect the Hospital Information System (HIS) with several external systems, allowing the exchange of information among the connected systems. The external systems include but not limited to: Radiology Information System (RIS), Laboratory Information System (LIS), Nuclear Medicine Information System (NMIS), Pharmacy IS, Pyxis System, ROWA System, etc. The solution was developed using Microsoft Visual Studio .Net.
Responsibilities	<ul style="list-style-type: none"> • Analyse the business requirements. • Work with engineers and architects from several suppliers to develop the most safe and effective data delivery mode • Work with the HIS team to design the integration APIs . • Provide the solution architecture based on XML and HL7 standards.

Organisation	Ministry of communication (MOC) Kuwait
Position	Solution Designer and Senior Programmer
Project	CDR Mediation. Reading the international calls data from the Ericsson exchange, extracting the valuable information, and sending it to database
Responsibilities	<ul style="list-style-type: none"> • Design the solution architecture. • Work with Ericsson engineers and architects to develop the most safe and effective data delivery model • Implement the solution using Microsoft Visual Studio .Net.

Organisation	Ministry of Social Affairs and Labor (MOSAL) Kuwait
Position	Solution Designer and Integration Specialist
Project	Integration between Oracle based ERP at MOSAL and IBM based system at Ministry of Interior (MOI) in Kuwait. The system at MOSAL integrates with the system at MOI to validate transactions as part of the workflow.
Responsibilities	<ul style="list-style-type: none"> • Work with MOI and IBM engineers to design the best integration solution architecture. • Solved many challenging problems from different platform integration points and some other issues related to Arabic encoding • Implemented the solution using IBM CICS Transaction Gateway (CTG) and Microsoft Visual Studio .NET.

Employment History Prior to Beshara Group

Organisation	Sakhr Software (Egypt)
Period	June 2002 – June 2004
Position	C++ , MFC Developer
Responsibilities	<ul style="list-style-type: none"> • Work on the development of Sakhr Automatic Reader(an Arabic OCR solution) • Optimise the performance of the OCR application

Organisation	EgyCom, (Egypt)
Period	March 2002 – July 2002
Position	C++, MFC Developer
Responsibilities	<ul style="list-style-type: none"> • Develop few custom UI components