ALI HAMKA

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Professional Experience

Proximie, AR in healthcare   *May 2017 – August 2019*
Beirut, Lebanon

Senior Software Engineer - Backend developer

- Developing scalable, highly available back-end media services for real-time communications.

- Designing, optimizing & enhancing server-side logic (back-end) for the web and mobile apps.

- Implementing real time modules (Socket.io, Websocket, WebRTC & Push Notifications...).

- Developing & implementing secure REST web services & APIs (PHP, NodeJs)

- Generating interactive REST API documentation.

- Developing automated scripts (Reminders, Database synchronization, Alerts …)

Team International, Management Consultants   *April 2005 – March 2017*
Beirut, Lebanon

IT Consultant (Since January 2012)

- Designing and developing business solutions using **PHP & MySQL** technology to improve productivity and efficiency of clients' business operations. Project consultancy solutions have included:
    o Business Process Improvement/Re-engineering.
    o Database driven applications.
    o Document management and workflow systems.
    o Remote access and file sharing.
    o Data backup and disaster recovery.
    o Collaboration tools.

- Reviewing and analyzing 3rd party solutions and aligning these solutions with clients' business objectives.

Senior Software Engineer (August 2007 – December 2011)

- Designing, developing and implementing systems and applications using the appropriate programming languages (**HTML, CSS, JavaScript, jQuery, PHP**…), databases (**MySQL , SQL Server & Ms. Access**) and APIS (**Google Charts, Google Maps**)

Software Developer (August 2005 – December 2007)

- Responsible for designing & implementing in-house web and software products using the appropriate programming languages such as C, C++ and **PHP**.

Trainee (April 2005 – July 2005)

- Development of "Multilingual Text Manager" project using C.

Team International   *December 2014*
APMG-International - COBIT 5

- IT Governance Training foundation & Implementation.
- Certified in COBIT 5 Foundation/Implementation.

Team International, Management Consultants   *January 2014*
Shift Technologies, KSA – MOMRA

- Enterprise Architecture Training using Mega System as a part of business processes re-engineering project.

Team International, Management Consultants   *June 2011*
Telvent, Lebanon

- Attendance and academic progress in the course *"Urban Traffic Development Project – Basic Level Operator".*

Future Television, Beirut, Lebanon   *2004 University placement*

Entry level

- "Telephone Command Project" – the objective was to create a 'remote system' via telephony to control electrical apparatus from different locations, utilizing a microcontroller and «Dial-Tone Modulation Frequency» (DTMF).

Projects and Deliverables

Proximie – Lebanon   *2019*
Distributed systems

- Implemented automated scripts for reminders (mobile/web push notifications, emails)
- Developed a queueing mechanism to process recorded sessions
- Developed alert & audit logs mechanism to monitor web services performance

Proximie – Lebanon   *2018*
Real time communication system

- Developed REST APIs using Slim Framework with a secure authentication/validation logic
- Developed and Implemented real time communication system enabling pub/sub concept based on socket.io library and NodeJs Platform
- Implemented real time APIs using socket.io, MySQL & DynamoDb

Proximie – Lebanon   2017
Remote 3D measurement (depth & length), tracking

- Designed, developed & integrated a secure real time communication mechanism between web users (Local doctor in OR and remote doctors)
- Develop a local web server https (listener) in C# integrating 3D measurement driver & interacting with video stream to execute requested 3D depth/length and calculate tracking matrix

Kingdom of Saudi Arabia – Ministry of the National Guard   2016
e-Government Transformation Strategic Plan

Senior Enterprise Architecture and Business Process Re-engineering Consultant responsible for the following tasks:

- Define and document EA model in compliance with TOGAF
- Define & Document EA Process (APO03) (COBIT EA Process)
- Define the organization structure, roles & responsibilities and JDs
- Setup and configure the Archimate (ARCHI) EA Tool
- Design EA & project Portal (SharePoint)
- Document AS-IS (Base Line) of IT services & TO-BE Architecture of IT services on Archi
- Gap Analysis and selection of opportunities and solutions
- Migration Plan & Road Map

Lebanese Republic - Office of the Minister of State for Administrative Reform 2016
Human Resources Capacities Building (European Union Sponsored Project)

Senior IT consultant responsible for the following tasks:

- Review Training Management Software Application run By OMSAR.
- Hardware – Software & Networking Assessment.
- Perform a GAP analysis between the current and desired functionalities.
- Developing a Training Needs Assessment tool.
- Design a new Training Management System and determine its technical specifications.
- Elaboration of ERD (Entity Relation Diagram) and Business Process (Workflow) Diagrams.
- Developing & implementing training management system based on **Laravel** framework for four ministries and the civil service board.
- Designing & developing project web portal with back end system using open source technology (**PHP & Mysql**).

Kingdom of Saudi Arabia – Development Authority of Makkah & the Holy Site 2016 Preparation of the Strategic Plan

Senior IT & Business Process Improvement responsible for the following tasks:

- Business Process Improvement (BPI) of all core and support functions.
- IT assessment for MMDA and design target IT operating model for MMDA including infrastructure and information security plans.
- Identification of smart services aspects in MMDA operations.
- Creating a database-enabled, web-enabled application for project discovery phase and data collection.
- Designing & Developing a database-enabled, web-enabled application for project discovery phase and data collection including training needs assessment & SWOT Analysis.
- Implementing a project deliverable portal using **PHP & MySQL Database**

Kingdom of Saudi Arabia - Ministry of Municipalities and Rural Affairs   2015 Business Processes Re-engineering

Senior member of a team of consultants responsible for development of a comprehensive Business Process Reengineering (BPR) study with the Ministry of Municipalities & Rural Affairs in KSA to provide a unified set of service processes enabling municipalities across the entire Kingdom to improve their operational performance, monitoring and evaluation capability, and to achieve responsive, effective, and accountable governance.

- Benchmarking with international best practice in municipal services
- Define the scope of a process and its integration points both input and output, whether business or IT
- Model the flow of a process, including identifying all of the activities within it and how they interoperate (AS-IS)
- Analyze underlying performance drivers and identify bottlenecks in the municipal processes as a whole
- Measure and assess gaps along process performance criteria
- Develop business process models to bridge gaps and ensure business processes and information flows are streamlined and efficient (TO-BE)
- Integrate re-engineered processes with Ministry's EA framework and align it with the IT infrastructure
- Created full system for documenting AS-IS processes and data collection survey covering 20 municipalities.
- Reports generation module for current situation assessment and SWOT Analysis.
- Created a portal tool to share results with the client.
- Applications developed using **PHP** and **MYSQL**

Kingdom of Saudi Arabia - Ministry of Municipalities and Rural Affairs   2014
Functional Structures Development

- Designed and implemented organizational & functional structure system for the management of jobs, and functions at the Ministry including:
    - Database/ERD design
    - Profile of employee
    - Career path
    - Competency framework
    - Training needs
- Created a **database-enabled**, **web-enabled** application for project discovery phase and data collection.
- Design and develop the central project database using a **MySQL/PHP** backend and intranet frontend.
- Created a **database-enabled, web-enabled application** to generate statistical reports with integrated Google charts for current state assessment of the current functional structures in municipalities throughout the Kingdom of Saudi Arabia
- Design of a database and Information System that supports the Administrative Development Directorate in implementing its plan for functional and organizational development and integrating the functional structures to the human resources that operates the present functions.
- Work with business and infrastructure architects to identify data, process and automation of HR and functional structure system.

IRAQ - Kurdistan Regional Government - General Board of Tourism   2013
Tourism Master Plan for Kurdistan Region

- **Developed GIS-enabled**, **database-enabled interactive web application** with GPS and **Google map** integration for current and future potential tourism sites including hotels, resorts, and restaurants as part of the e-tourism map application.
- Development interactive multi-layer GIS map for all KRG tourist sites
- Designed and developed a web-enabled project management application for all touristic site development, with corresponding reports as well as training and knowledge transfer to operational staff.
- Integrated tourism site with social network sites to promote KRG tourism products.
- Created web application for Tourists Satisfaction Survey and generating statistical reports & charts.

Kingdom of Bahrain, Ministry of Municipalities and Urban Planning   2012
Management Audit System for Ministry

- Created a web database for consultants project archiving and communication needs.

- Created automated forms for staff evaluation and SWOT analysis.

- Created a database-enabled, web-enabled application for project discovery phase and data collection.

- Integrated e-forms into database-enabled application for HR, Training, organization, financial, systems & Procedures as well as IT evaluation and SWOT analysis.

World Bank Development Project, Republic of Yemen, Port of Aden   2011
Document Management and Workflow System (ADAMS)
An European Union Sponsored Project

Designed and developed a document management and workflow system for the Aden Port City Development Project (PCDP) ADAMS is a web enabled, database driven, hosted application designed and developed to improve the General Investment Authority's procedures.

ADAMS is a web-enabled database driven application, designed and developed to improve the City of Aden's 'Investment Authority' processes. Features include:

- Streamlining and automation of processes and procedures
- Manage forms and documents throughout operations
- Monitor the workflow of administrative processes
- Allow for in-house maintenance and task enhancements
- Allow for workflow statistics.
- Integrated security
- MySQL server integration and security

Senior Software Programming at TEAM International

Project team **leader** for the following systems:

- **Data Management System** (Developed using **PHP** and **MySQL** with **Google API**

  Integration: Maps and charts)

  A web-enabled system used for data collection and generating appropriate reports including dynamic charts and graphs. This system support client interactive client feedback on reports, and extends the flexibility to review our deliverables and give feedback on our recommendations using online interface.

- **R-Kiving System** (Developed using **PHP** and **MySQL** with **Google Desktop** Integration)

  It is a web based application designed to classify, index, control the access to documents and projects and improve the search and retrieval documents.

Project team **member** for following products:

Mutant (Developed using **C** with **XHTML** interface): 3-in-One Relational Database Management System, Web and Network Server.

SynXro (Developed using **C, PHP, XHTML** and **AJAX**)

A Remote File Transfer Server that can be accessed from any location via a web browser.

SafeGuard (Developed using **C, C++**, and **HTML**)

Enables central automated backup of LAN's, files & folders for archiving, backup and recovery. Also stores new or modified files in a database and on a mirror disk.

Secure Mail System (Developed using **C, PHP, AJAX** and **MySQL**)

Development of a secure mail system (client/server) that requires an encryption key in addition to user name and password for securing user profiles and emails.

Mailer System (Developed using **C, AJAX** and **HTML**)

For sending batch emails with attachments (used for online marketing purposes) to different emails addresses via SMTP servers or directly.

Internet Monitor (Developed using **PHP**)

Functions as a radar system that sends a signal to check the connectivity of machine that it's installed on to the internet and logs the results both locally and online.

Multilingual Text manager (Developed using **C**)

It converts between different character set (Unicode, UTF-8, ISO, Windows and ASCII).

Freelance projects

- Dynamic websites development with CMS using **Wordpress**, **PHP, MySQL, XHTML, JQuery** and **AJAX** Technologies**:**
    - http://aljndi.com/
    - http://aiso-lb.com/
    - http://arabianss.org/
    - http://iscslb.org/
    - http://qinnarit.com/
- Development of a search engine application with Google API integration. Application developed using **.Net** frame work and **SQL Server Database**.
- Develop and integrate applications using **SMS API.**

Education

Lebanese University, Saida & Beirut

Engineering Degree
Computer engineer: "Conservatoire National des Arts et Métiers" (ISAE CNAM)
"*Informatique, réseaux, systèmes et multimédia (IRSM)*".

Diplome d'Etude Superieure Technique (DEST)
"Conservatoire National des Arts et Métiers" (ISAE CNAM)
"*Informatique (Ingénierie et intégration informatique : Systèmes de conduite)*".

Diplôme Universitaire de Technologie (DUT)
Institut Universitaire de Technologie (IUT)
"*Génie des Réseaux Informatiques et Télécommunications*".

Technical Qualifications

UNIX/Linux, Python, NodeJs, Redis, Socket.io, DynamodB, APIs, RDBMS, AWS, Robot Framework (Web Automation Scripting), Slim framework, Git, CloudEA, COBIT5 Foundation & Implementation (Certified); ARCHI; EA; TOGAF; BPMN2.0; Archimate 2.0; GIS (ArcMap); SOAP; JAVA; C/C++;VB; ASP; PHP; WORDPRESS; LARAVEL; JSP; .NET; DATABASE & SQL ; XHTML; JavaScript, CSS; XML; XSL; XPATH;DOM ; RSS; AJAX; ASM.

Languages

Arabic, French & English.