

Primary Skills

✓ Business Problem Analysis
✓ Business Intelligence
✓ Database System Architecture and Design
✓ Data Mining
✓ Software Development and Methodology Mentoring

Techniques

✓ Object-Role Modeling (ORM)
✓ Online Analytical Processing (OLAP)
✓ Entity-Relationship (ER) Modeling
✓ Unified Modeling Language (UML)
✓ Rational Unified Process (RUP)

Analysis/Design Tools

✓ Rational Rose
✓ Visio for Enterprise Architects
✓ Power Designer

Database Platforms

✓ MS SQL Server
✓ MS Analysis Server (OLAP)
✓ Oracle
✓ MySQL

Languages

✓ SQL/MDX/DMX
✓ J2EE/ASP.Net
✓ XML
✓ Java/C#

Summary

is an expert level data mining engineer with extensive database system analysis, design, and implementation experience. He is a frequent author and speaker on data mining topics and a natural language-based data and business rule analysis and design technique.

Haytham has extensive experience in requirements gathering and business rules analysis using a variety of techniques and artifacts, conceptual/logical/physical database modeling in ORM/ER/UML, model validation/business rules traceability analysis, “as-is” vs. “to be” software modeling and gap analysis, and meta-modeling.

Haytham has been an integral part of every phase (analysis, design, testing, and implementation) of database projects using every common type of data store transactional (OLTP), data warehouse and Data Mart (OLAP), and Business Intelligence and Data Mining.

Haytham also has hands on database system construction experience to include stored procedure construction and testing, OLAP cube design and construction, persistence and business logic layer development, extraction/transformation/loading (ETL) design and implementation, report development, database system troubleshooting and performance tuning, database configuration and administration (e.g. DBA tasks), and application testing. Haytham also has experience in object-oriented development techniques, user interface design and construction, and web/windows application development in a variety of languages.

In summary, Haytham focuses on bridging the “business-technology gap” that seems to appear in many companies by simultaneously acting as a liaison between the two “worlds”, demonstrating/facilitating more formalized business functionality requests, building trust, focusing on delivering business value as quickly as possible, and developing/mentoring technical teams such that they are more aware of business needs and, often, the more advanced analysis/design/development techniques needed to meet those needs.

Project/Employment History

University of Lincoln

Research Developer (2 - 2008 to Present)

- Community Detection in Blogosphere
Apply text mining in modeling the patterns of users in blogosphere by analyzing their postage, comments, moods, and demographics attributes. The text mining components in SQL Server 2008 Business Intelligence are utilized to find the groups/clusters in the blog space and infer their interests and behaviors. Blogger identification model was developed to detect plagiarism and anonymous identities. The outcome of this research is also useful to visualize the hidden knowledge and relations within the bloggers community.

European Union - ISMF

Software Development Consultant (8 - 2007 to 1 - 2008)

- E-government national project
Requirements analysis, design, and development of Pilot web application which provides e-Government services for the local citizens. The development is based on Oracle ADF J2EE Application Development Framework (JDeveloper). The work includes analysis & design (UML), and development of two applications for the sake of Economic Ministry and Industry Ministry. Different technologies are utilized: Oracle Designer, JSF, EJB, XML, and TopLink.

Amwal

Project Manager (6 - 2006 to 9 - 2007)

- Business Intelligence System
Behavioral Customer Banking Transactions, Senior Software Engineer
Analysis and design of extensions to an existing data warehouse business intelligence platform used primarily to determine the profitability of credit card accounts meeting various criteria. Work performed includes requirements gathering, design overview documentation, ETL specifications, dimensional modeling, conceptual/logical/physical data modeling, and various implementation tasks. Later stages of the project will include an OLAP component as well as an interactive query environment where users can save account populations of interest to facilitate time-series analysis.
- E-payment Gateway
Major Financial Services, Senior Software Engineer
Analysis, design, and development of e-banking core engine which provides many e-payment services for customers and merchants via multiple channels like Mobile SMS, Web, and TCP/IP socket using bank switch accomplishing financial transactions among many banks.
- Consumer Web Application
Mobile Operator, Data Architect
Analysis, design, and construction of an online system for state residents to pay for mobile bills. Work performed includes requirements gathering, writing of use cases and related analysis artifacts, database modeling, design, and construction, stored procedure construction/testing, ETL work, QA, and general data/software architecture consulting.
- Legacy System Replacement
Mobile Operator, Data/Software Architect
Analysis and requirements gathering for the replacement of a legacy interface that communicates with banks ATMs. New system will be geared towards improved parallelism, performance, and outcomes, better integration with state systems of record, and improved technical architecture.

TeachArabia

Project Manager (6 - 2004 to 5 - 2006)

- School Management System
National and International Schools, Senior Software Engineer
Requirements analysis and design of a corporate desktop and web-based application for managing

dynamically requirements of schools. Meta model features include: run time tree design and implementation, user-defined attributes of any scope and complexity, dynamic system interfacing, full temporal tracking (of both business and system dimensions), meta-model-defined data validation rules, and meta-model-defined queries and extracts. This system also had advanced effective security capabilities. Also authored stored procedures for the entire data access and business rules layer.

- Timetable Scheduler (Genetic Algorithms)

National and International Schools, Senior Software Engineer

Requirements analysis support, data architecture, and software design role of timetable scheduler that generate teachers and students timetables based on their preferences utilizing artificial genetic-algorithms to solve the complex constraints.

- TACommon Toolbox

TeachArabia Software Corporation, Designer/Developer

Written entirely in C#, this add-on to Visio for Enterprise Architects (as shipped with Visual Studio .Net) extracts ORM\ER meta-data from the largely undocumented COM API into an XML import, provides browsing of model elements, and has ORM model bulk-import facilities. This add-on is used in a number of ways such as generating DDL scripts in Visio Professional, custom data meta-model reporting, custom data repository feeds, and generating XML schemas.

Vermeg

J2EE Developer (9 - 2003 to 6 - 2004)

- Semantic UML IDE for E-Banking Framework

Used conceptual/semantic data modeling as an analysis bridge between use cases and UML design and implementation models. Determined and participated in end-user workshops, functional specifications, use cases, object diagrams, data models, and concept documentation. Acted as counsel to project management team on data architecture as well as other project matters. Reviewed design and analysis artifacts – such as class diagrams, interaction diagrams, use cases, et al.

Education

2008-2011 **MPhil/PhD, Computer Science** University of Lincoln, Faculty of Information Technology

Studies focused on data, web, and text mining. The target of the research is to apply knowledge discovery techniques in blogosphere for variety of functions such as authorship identification. Several text engineering techniques have been utilized such as data mining, natural language processing, knowledge management, business intelligence, and expert systems.

2000-2004 **BEng, Information Technology** University of Damascus, Faculty of Information Technology

Studies focused on software engineering, programming, database design, IT services marketing and planning, artificial intelligence, semantic web, multimedia analysis, and knowledge management and engineering.

Certification

- Microsoft Certified Technology Specialist (MCTS)
- SQL Server 2008, Business Intelligence Development and Maintenance Certified
- IBM Certified Solution Designer - Object Oriented Analysis and Design (OOAD)
- Sun Certified Java Programmer (SCJP)
- Certified Neuro-Linguistic Programming Practitioner (NLP)

Languages, Tools, and Databases Experience

Visual Studio.NET (ASP.Net, C#), Sun Java J2EE, Microsoft Transact-SQL, MDX, DMX, Oracle PL/SQL, ISO standard SQL, HTML, XML/XSD/XSLT, Pascal, Microsoft Access, Visio Solutions Development

Rational Rose, Visio for Enterprise Architects and Technical, Visual SourceSafe, Power Designer, Oracle Designer, Visual Studio.Net Enterprise Architect, Eclipse, JBuilder, Oracle JDeveloper

Microsoft SQL Server 2000/2005/2008, Microsoft (OLAP) Analysis Server, Oracle 7.x-10.x, MySQL

Publications

- “Mining Online Diaries for Blogger Identification”, in the 2009 International Conference of Data Mining and Knowledge Engineering (ICDMKE'09), London.
- “More Blogging Features for Author Identification”, in the 2009 International Conference on Knowledge Discovery (ICKD'09), Manila.
- “Two-Layer Classification and Distinguished Representations of Users and Documents for Grouping and Authorship Identification”, in the 2009 IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS'09), Shanghai.

Professional Memberships

- Active member (past and/or present) of Microsoft SQL Server, data modeling, and ORM (Internet) communities.
- Professional membership at PMI (Project Management Institute).
- Professional membership at IAENG (International Association of Engineers).
- Professional membership at IACSIT (International Association of Computer Science and Information Technology).
- Active Member in DCAPI group, Lincoln University (Digital Contents Analysis, Production, and Interaction Group).

Referees

References

References are available upon request.