

# AMIR YOUSSEFI

---

e-mail: AmirHYoussefi@yahoo.com

## HIGHLIGHTS

---

- Designed and developed complex Data Warehousing/ETL/Business Intelligence solutions in Multi Tera Byte Databases (e.g. amazon.com) using Plain SQL, PL/SQL and tools.
- Designed and Developed large J2EE/Java EE applications with Struts and Spring frameworks.
- Implemented Enterprise Application Integration (EAI) using Service Oriented Architecture and Web Services
- Developed systems under Linux/UNIX using sed, awk, Perl, regular expressions and shell scripting.
- Managed several development projects and teams.
- M.S. in Computer Science.

## PROFESSIONAL EXPERIENCE

---

### **Business Intelligence Engineer, Amazon Inc., Seattle WA, 2006**

Developed/Managed several projects in Tera Byte Oracle 10g Data Warehouse under Linux using SQL and custom tools. Participated in running operations of DW and meeting SLA agreements. Designed Dimensional Models. Developed and optimized complex ETL jobs using partitions, parallel execution, complex Analytic Functions, hints, indexes etc.

Main Projects: 1. Amazon/A9 Search Analytics (Primary Developer) 2. Recovery of Lost CP Information by Data Integration in DW (Primary) 3. Global e-mail Subscriptions (Primary) 4. e-commerce Procurability (Primary)

### **Data Warehouse Developer/Software Engineer, Plateau Systems, Arlington VA, 2004- Jan 2006**

- Developed J2EE/Java code under Struts and Spring frameworks for enterprise learning application with thousands of classes. Used JBoss for development environment and deployed under WebLogic, WebSphere and Oracle Application Server.
- Developed ETL solution with PL/SQL in a Dimensional Data Warehouse. Designed Data Stage, Data Mart, Facts, Dimensions and Star Schema. Tuned ETL Performance by SQL tuning, hinting, indexing, temp tables etc.
- Designed and implemented Enterprise Application Integration (EAI) solution for Macromedia Breeze (Adobe Connect), Centra (with Web Services), WebEx and Microsoft Live Meeting/Placeware.
- Provided consultancy on Unicode, Internationalization and RTL Languages Support

### **Systems Developer, American Association of Medical Colleges, Washington DC, 2004**

Developed and optimized National Reports on Medical School Applicants (for 125 American Universities) using Oracle PL/SQL, Java and Cold Fusion in different formats of Crystal Reports, HTML and PDF (using iText). Designed and developed materialized views, facts and dimensions. Conducted SQL Performance Tuning.

### **Technical Manager/Lead Developer, Pars Expo Co., outsourced from San Jose CA to Tehran, 2001-2002**

Developed Pars Expo crafts retail e-commerce as Architect and Engineering Manager for a dozen developers. Responsibilities include: Requirement Gathering, Design, Project Management, Data Modeling (for Oracle 8i), J2EE Architecture and Development (Orion & WebLogic)

### **Technical Manager, Computing Center R&D, SUT University, 2000-2001**

Developed "Online Student Information and Registration System" serving about 7000 university students. Technical manager in charge of system launch. Other responsibilities: Developing (J2EE/JSP and ASP) code, ETL for migrating and transforming data between Oracle/MS SQL Server/MS Access/FoxPro databases, Web Interface Design of pages with critical timing requirements, Conversion to Unicode and supporting internationalization and localization, Data Modeling with Oracle and MS SQL Server Databases

### **Lead Developer Chortkeh Corp., outsourced from Inglewood CA to Tehran, 2001**

Provided online business workflow management solution for law firms. Led two teams in JSP and Microsoft ASP web development. Designed and implemented database for MS SQL Server.

### **Developer, Various Companies (ISNA News Agency 1999, Payam Co. 1998, Pars Tableau Co. 1997, Emad Armeh Co. 1996, CFM Co. 1995), Tehran, 1995-2000**

Designed and implemented database enabled systems, developed stand alone applications, developed several websites. Installed/administrated web/application servers and network infrastructure.

## EDUCATION

---

- M.S. in Computer Science, Rensselaer Polytechnic Institute (RPI), Troy NY, 2003.  
Research Topics: Web Mining and Data Integration
- B.S. in Electrical Engineering, Sharif University of Technology (SUT), Tehran, Dec 2000.  
Project: Web Accessible Database

## PUBLICATION AND PRESENTATIONS

---

- A. H. Youssefi, D. J. Duke, [M. J. Zaki](#). "Visual Web Mining", Proc. Int'l Conf. on World Wide Web, New York City, May 2004 (short paper in Alternate Track)
- A. H. Youssefi, D. J. Duke, [M. J. Zaki](#) [E. P. Glinert](#). "Toward Visual Web Mining", Proceeding of Visual Data Mining at IEEE Int'l Conference on Data Mining (ICDM), 2003.
- Tutorial: "Persian Unicode Computing", Behdad Esfahbod, Amir Youssefi, 25th Internationalization and Unicode Conference, Washington, DC, 2004.
- [M. J. Zaki](#) (RPI, NY), A. H. Youssefi, B. Phoophakdee, "Minimal Association Rules: Theory, Algorithms and Visualization", technical report, RPI, 2004.

## AWARDS

---

Khwarizmi National Scientific and Technical Award (1995), Computer Olympiad (National Level 1994&1995)

## TECHNOLOGY

---

**Database:** SQL Performance Tuning, Dimensional Modeling, Star Schema, Data Warehouse/Logical/Physical Design. Development of Stored Procedures and (Materialized) Views.

- Oracle (7, 8i, 9i and 10g): ETL, PL/SQL programming, Tuning (with Hints, Partitions, Parallelism and Indexes), complex Analytic Functions (e.g. CONNECT BY, Windowing Functions, LEAD/LAG, GROUPING SETS etc.), installation on Windows and Linux
- Modeling/Development Tools: Navigator, ERwin, ER/Studio, Toad, SQL\*Loader etc.
- ETL Tools: short time experience with Informatica and Oracle Warehouse Builder (OWB)
- Reporting Tools: short time experience with MicroStrategy and Crystal Reports
- Others DBMS: MS SQL Server, MS Access, MySQL, Cloudscape, some experience with PostgreSQL and Fox Pro.
- Data Mining: Developed custom Web Log Mining system as part of Masters Thesis.

### Languages:

- Programming: Java (main language), C++ (some experience), Perl, Python (limited experience)
- Web Programming: J2EE/JSP/EJB/Servlets/JSTL, Cold Fusion, ASP, PHP, JavaScript, VBScript, CGI, HTML, CSS
- XML related: XQuery, XSL, SOAP, WSDL etc.

### Software:

- Architecture (n-tier, Object Oriented Design and Service Oriented Architecture): Frameworks, Design Patterns and Blueprints e.g. Struts, Spring, Expresso and Fusebox.
- Web/Application Servers: JBoss, BEA WebLogic(5 to 8), Orion, JRun, Tomcat, MS IIS, Oracle AS etc.
- Tools: CASE Tools, Build Tools(e.g. ANT), Test (Unit Testing JUnit and TDD, Load Testing with WAS, Mercury Test Director and Apache ab), CVS (WinCvs, VSS), PVCS Tracker
- Persistence Tools: JDBC (OCI, Thin Driver, tracing etc), some Hibernate and iBATIS
- Software Engineering Methodologies: XP, some experience with Agile and RUP
- Internationalization, Localization and Unicode in databases, web and software.
- Web Services and Distributed: SOAP/WSDL, RMI, RPC. Tools: Axis, XP, Xerces, Xalan
- Platforms: MS Windows(3.1 to XP), Linux (RedHat and SUSE), Solaris, FreeBSD, Novell, VMS
- Visualization/Documentation: UML, co-developed a 3D graph rendering library under VTK