
Reza Mahjourian

3555 Lake Austin Blvd Apt C
Austin, TX 78703

(352) 871-8633
reza at cs period utexas period edu

EDUCATION

- Ph.D. student in Computer Science, University of Texas at Austin, Sep 2008 – present
- M.Sc. in Computer Science, University of Florida, 2008, GPA of 4.0
- B.Sc. in Computer Engineering (Software), Sharif University of Technology, 2002
- Scored 870 (higher than 98%) in GRE Computer Science Subject Test, 2002

SKILLS

- Experienced with object-oriented analysis and design, and design patterns.
- Familiar with Concurrent Programming techniques, Java Memory Model
- Fluent in Python, Java, PHP, Bash (shell script), Sed, AWK, C. Familiar with Haskell.
- Web technologies: XML, XSLT, HTML/CSS.
- Highly experienced in using UNIX/Linux system administration and development tools.
- Proficient in managing and programming relational database systems, especially in PostgreSQL. Familiar with MySQL, Oracle, MS SQL Server.
- Fluent in English. Scored 280/300 in TOEFL, 6/6 in writing, 60/60 in SPEAK test. Intermediate knowledge of French. Native Persian speaker.

EXPERIENCE

June 2008 – Aug 2008

Department of Education, University of Florida

Graduate Assistant

Gainesville, FL

- Designed and developed a web application for special education teachers. The application allowed teachers to define evaluation criteria for students and track their performance over time. The web app included various report and graph generation facilities and was integrated with a Drupal installation.

June 2006 – Aug 2007

Florida Museum of Natural History

Graduate Assistant/Full time Software Developer (in summers)

Gainesville, FL

- Designed, developed, and maintained a software system for managing world's largest Lepidoptera (butterfly) research collection administered at the institution.
- Designed and developed a Genetic Samples Database application, aggregating and integrating data from various other collection databases.

Sep 2004 to Jan 2006
Software Engineer

Telemedia Premium
Paris, France

- Designed and led development of an online customer extranet for KDDI network operator in France. The backend interfaced with telecom equipment to perform continuous online processing of phone call records, and the web interface allowed customers to access a large variety of reports on demand. Four different user types could access aggregated data based on their role in the hierarchy. Despite the enormous size of the databases, various tunings were performed on the data model and the database server to allow for almost instantaneous query results.
- Reverse engineered, redesigned, and redeveloped a poorly designed application for managing financial transactions of TELEMEDIA's Premium phone numbers business.
- Designed and developed a comprehensive reseller interface on top of a commercial telecom switching device, which lacked the reseller option. This project relied extensively on automated shell scripts to interface between the different programs and databases. Due to the importance of accuracy in handling financial data, robust error handling mechanisms were developed, including maintaining request queues, merging/dropping delayed requests, providing mutual exclusion, reporting errors, etc, all using shell scripts.
- Developed the software components (minus the HTML interface) for an internet web site vending ringtones and logos over the GPRS network. Web services were used to dynamically update the catalog from the content provider's web site. Orders could be placed on the web site or from the GPRS network. Python scripts were used to coordinate communications between the geographically distributed nodes (GPRS server, web server, content catalog server), using web services, or SMPP protocol.
- Designed and led development of a SMS routing and roaming platform allowing customers to send international SMS messages over the web or using cell phones. The platform interacts with other SMS gateways using the SMPP protocol. Developed web services to allow partners to integrate the above service in their web sites.

Sep 2003 to Sep 2004
Software Engineer

Veesta World Co.
Tehran, Iran

- Reverse engineered a real-time SCADA communication protocol for HITACHI Remote Terminal Units (RTU). Re-implemented the protocol on a compatible device on PSOS operating system. RTUs were deployed in a SCADA system monitoring parts of the national power network. Work resulted in substantial reduction in hardware costs.

Aug 1999 to Aug 2003
Technical Manager, Lead Software Developer

Science and Arts Foundation (NGO)
Tehran, Iran

- Designed the distributed infrastructure of 100+ high school computer sites connected to 7 regional hubs across the country in project SchoolNet. Also designed and led development of the network and software services provided to these schools through web sites like <http://www1.schoolnet.ir/en>

- Designed a web-based school portal offering various per-user and per-school services including content management systems, web site construction tools, forums, online file libraries, collaborative projects, and administration facilities.
- Supervised four part-time programmers.
- Worked as iEARN country coordinator for Iran, facilitating collaborative international projects between high school students and teachers, 2001-2003
- Collaborated in a team for developing Sharif University's online student information and registration system. Major responsibilities included designing the data model and the Oracle database.
- Developed a community web site for Iranian university students in 1999.

Dec 1995 to Apr 1997
Software Developer

Ideh Negar Computer Development Co
Tehran, Iran

- Developed libraries for a Persian OCR system in C.
- Developed user interface components and libraries for a GIS application in C.
- Worked in a team of programmers to develop several information systems for the clients of the company using FoxPro.
- Developed a FoxPro application for managing a public CD rental service.

Various dates from 1997 to 2003
Freelance Software Developer

- Designed and led development of a web application for TakTaz, a motorcycle manufacturing company. The system allows the sales offices, the factory, and the dealers to collaboratively follow workflows for managing inventory, taking and processing orders, supervising the shipping process, and issuing registration documents.
- Designed and led development of a FoxPro application for managing the manufacturing and outsourcing of vehicle parts for Kaveh Khodro, major truck manufacturing company.
- Developed a school software suite, featuring a library manager and a multiple-choice test generator offering various reports on students' performance and progress.

Awards

- Provost Fellowship, University of Southern California, 2008 (did not pursue).
- Outstanding Academic Accomplishment, University of Florida International Center, 2007.
- Achievement Award, Department of Computer Science, University of Florida, 2006.
- Starting Graduate Student Fellowship, State University of New York at Stony Brook, 2003 (did not pursue).
- Outstanding Student Award, Sharif University of Technology, 1996.
- Ranked 78th among 400,000 participants in national college entrance exams, 1995.
- Qualified to the final round in National Informatics Olympiad in Iran, 1994.

PUBLICATIONS

- Reza Mahjourian, “[An Architectural Style for Data-Driven Systems](#)”, *International Conference on Software Reuse*, 2008.
- Reza Mahjourian, Feng Chen, Ravi Itwari, Fang Yuguang, My Thai, “[An Approximation Algorithm for Interference-Free Broadcast Scheduling in Ad Hoc Networks](#)”, *The ACM International Symposium on Mobile Ad Hoc Networking and Computing*, 2008.
- Chris A. Mattmann, David Woollard, Nenad Medvidovic, Reza Mahjourian, “[Software Connector Classification and Selection for Data Intensive Systems](#)”, *2nd International Workshop on Incorporating COTS Software into Software Systems*, 2007.
- Reza Mahjourian, “Automatic Generation of Web-based Information Systems”, *B.Sc. Thesis (Persian)*, *Sharif University of Technology*, 2002.

NON-ACADEMIC PRESENTATIONS

- “The Experiences of iEARN in Iran”. 10th iEARN conference, Osaka, 2003.
- “How to make a school intranet using free and open source software”. 9th iEARN conference, Moscow, 2002
- “The activities of Science and Arts Foundation in Iran”. 8th iEARN conference, Cape Town, 2001