

Mo Fakhreddine

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Work Experience

Pervasive Software, *Software Engineer*

Feb 2008 – Present

- Reviewed, certified and productized outsourced Java projects which utilize service data objects (SDO) and data mediation services (DMS).
- Developed a Java data connector utilizing reflection with a Java-to-COM layer to perform CRUD operations on QuickBooks data files using their COM API.
- Remote-debugged Java programs in Eclipse and C++ programs in Visual Studio 6.
- Ported Java and C++ projects from 32-bit Windows to 64-bit Windows and Linux.

Logical Information Machines (LIM), *Software Engineer*

Mar 2007 – Feb 2008

- Wrote and maintained stand-alone Java programs using Eclipse to download vendor data files via FTP and HTML, parse and insert the data into Oracle database tables via embedded SQL.
- Coordinated outsourced projects to develop Java programs to download and process data.
 - Provided technical specifications
 - Integrated into the LIM repository
 - Performed integration testing
- Provided technical specifications, performed system testing and deployed a 3-tier J2EE application running on Apache Tomcat with underlying Derby database.

FactSet Research Systems, *Software Engineer*

Jan 2005 – Jan 2007

Provided client-server software solutions to the financial industry as a member of the Portfolio Analytics team responsible for the Portfolio Analysis 2.0 and Portfolio Dashboard applications

- Developed new application features in C++ while maintaining legacy code on VMS servers
- Synchronized code changes and merged branches in a Perforce code repository
- Created, updated and resolved enhancement requests and bug reports using IBM Lotus Notes
- Interfaced with product development to translate business needs into functional specs
- Participated across the product lifecycle of a new application from writing product specs, development and deployment to product support
- Specialized in application front-end, user interaction, and report generation

UT Department of Germanic Studies, *IT Specialist*

Nov 2003 – Dec 2004

Developed a web-based solution to paperwork and greatly improved the workflow efficiency for linguistics research students, sparking the interest of other professors in the community

- Designed and implemented a MySQL relational database for research information
- Created a secure PHP web tool with user-authentication that uploaded and downloaded files from an Apache web server running under FreeBSD
- Installed a Perl XML-parser and wrote scripts utilizing regular-expression string matching to perform searches on local files remotely through a web interface

Other Projects

Soultanieh.org, *Freelance*

June 2004 – Present

Created a webpage for exchanging pictures and messages in both English and Arabic, written and designed from scratch using HTML, PHP, MySQL, Javascript, CSS, and AJAX and hosted on a remote server (see it at www.soultanieh.org)

International Aerial Robotics Competition, *IEEE Robot Team*

Used the Open Computer Version C++ library to detect a physical symbol from multiple angles and distances using a webcam mounted on an autonomous helicopter, with strong emphasis on a simple algorithm for speed on a mobile processor

Education

BS Computer Science with Special Honors / The University of Texas at Austin / May 2005
Major GPA: 3.92/4.0, Overall GPA: 3.64/4.0

Academic Course Experience

- Wrote sorting program in assembly language using data structures such as binary search trees
- Studied the Intel Pentium Processor and designed gate-level architectural changes to improve the speed of a given assembly program, finally presenting the changes in a technical document with an executive summary
- Programmed a chip in VHDL to perform division on two binary numbers input by two sets of switches and output the result to an LED array

Skills Java, C++, C, Perl, PHP, SQL, HTML, XML, Javascript, CSS, CVS, Linux, Maven

Foreign Languages Fluent in Arabic