

RAED MUNIR SHOMALI

<http://www.scf.usc.edu/~rshomali/>

EDUCATION

- Masters Degree in Computer Science (Software Engineering) (GPA – 4.0)** (Expected May, 2009)
Viterbi School of Engineering, University of Southern California Los Angeles, CA
- Bachelor Degree in Computer Information Systems (GPA – 4.0)** (June, 2007)
King Abdullah II School for Information Technology, University of Jordan Amman, Jordan

SKILLS & PROFECIENCY

- **Tools:** Net Beans 6, Eclipse, Rational Software Modeler, Tortoise Subversion, MS Office
- **Database Systems:** Oracle 9i/10g, MySQL
- **Technologies:** Java, JavaScript, SQL, JSP, XML, Servlets, HTML, CSS, DOM, JSON, AJAX, C++
- **Web Servers:** Apache, Jakarta Tomcat

WORK EXPERIENCE

- Intersect World, LLC. Developer** Internship (Summer 2008)
- Developed an **iPhone** Application using **Apple's iPhone SDK**.
 - Implementation was using C, C++ and Objective C languages.
 - Retrieved and parsed XML files, interacted with the iPhone's **SQLite** Database and scraped websites using **PERL**.
- USC CSSE Department, Developer** Internship (Summer 2008)
- Developed "**COINCOMO**", a Software Engineering tool based on Prof. Barry Boehm's Cost Estimation Model.
 - Used **Java Swing** to interface with a **Postgres** Database via the **JDBC API**.
 - Communicated and worked closely with a **Sun Microsystems** employee during the development of the tool.

RELATED EXPERIENCE

- Project:Possibility, Participant** <http://www.projectpossibility.org> (Spring 2008)
- Hand-picked, among few individuals, from a pool of 60 applicants to participate in a 12-week Project.
 - Lead by a full-time employee from **Amgen**, to develop a closed captioning tool to aid the deaf while watching videos.
 - The tool was a Firefox extension developed using Javascript & Flash (Front End) connected to a MySQL database.
- University of Jordan, Research Assistant** (September 2006 – June 2007)
- Collaborated with my Software Engineering professor and helped him with his research on Project Scheduling.
 - Gathered & analyzed both my Software Engineering and A.I. Professors' requirements needed for their research.
 - Developed a standalone Java (Swing) tool that automates much of the planning, scheduling and risk analysis processes.
 - Investigated for optimized solutions for better performance and efficient memory usage.
 - The tool was built, using Eclipse, to simplify MS Project and add the necessary features desired by my professors.

ACADEMIC PROJECT EXPERIENCE

- Face and Motion Detection: Matlab Developer** (Artificial Intelligence) (Fall 2008)
- Used **Matlab's "Neural Network Toolbox"** to create neural networks that recognizes faces and motions of objects.
 - Designed & trained a neural network to distinguish among 20 different faces regardless of their facial expressions.
 - Designed & trained a neural network to recognize each of 5 different motions (**Up, Down, Left, Right and Diagonal**).
- Online/Offline Feed Reader: Web Developer + Database Designer** (Web Technologies) (Spring 2008)
- Developed a Feed Reader that works both online and offline using both the Google Gears and HTML5 technologies.
 - The Reader accepts both RSS and ATOM feeds and sends them to a Java Servlet XML parser via AJAX.
 - The Java Servlet generates a JSON string that is sent back to the reader to display the data accordingly.

Spatial Database Project: Database Designer + Developer (Database) (Spring 2008)

- Developed a Graphical Query System that generates graphical results in response to user's mouse clicks.
- The system accepts user's input to display Geometrical shapes that represent alarms and buildings on a USC map.
- Used Oracle 10g's Object Oriented Spatial Database features through a Java Swing user interface.

LA County Web Initiative, Software Architecture + Developer (Software Engineering) (Fall 2007 – Spring 2008)

- Real Project for Real Clients (LA County's Department of Parks & Recreation)
- Designed the architecture in UML and implemented some prototypes in Javascript (Front-end) & J2EE (Back-end).
- Used JDBC to interact with a MySQL Database.
- Negotiated requirements with the Clients, managed their expectations and explained difficulties and possible solutions.
- The system was a website that should attract the youth and update them with current events, news and activities.

Banking System: Project Manager + Database Designer + Developer (Database Systems) (Summer 2006)

- Managed, scheduled and planned the development and testing of the project.
- Conducted several meetings with a Bank Consultant to collect requirements and sample data for testing.
- Designed the Database's Conceptual Design and Logical Schemas.
- Developed the System using Oracle 10g's iSQL & Forms Builder.

For more on other Academic Projects & Extracurricular activities, please visit my website <http://www-scf.usc.edu/~rshomali/>

EXTRACURRICULAR ACTIVITIES

My Website: Web Designer + Developer (<http://www-scf.usc.edu/~rshomali/>) (Spring 2008)

- Designed and implemented the front-end in **Javascript, HTML and CSS**.
- Made usability tests to make improvements and provide a better user experience for my visitors.
- Tested the website on different browsers to ensure consistency and cross-compatibility.

SuDoKu Game/Solver: Developer (Spring 2006)

- Developed the game in **Java (Swing)** as a standalone desktop application.
- It was well received over the internet.

Computer Science Simulations: Developer (2005 - 2006)

- Simulated CS Concepts through developing standalone Java educational tools used by many students in:
 - Computer Security, Operating Systems, Distributed Database Systems, Computer Graphics, Multimedia and Natural Language Processing courses.

AFFILIATIONS & ACHIEVEMENTS

Offered, USC's **Sun Microsystems'** Campus Ambassador (2008)

Selected, USC's Java User Group Leader (2008)

Recipient, Barakat Prize for Information Technology (2007)

Recipient, "We Are All Jordan" Top Student Award (2007)

Invited to meet with the King of Jordan, **King Abdulla the Second**, due to outstanding academic performance (2006)

Recipient, University of Jordan Annual Scholarship (2005, 2006, 2007)

Honor & Dean's List, (2005-2007)

References and recommendations on both personal and professional levels are available upon request.