

NATALIE WISER-OROZCO

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EDUCATION

California State University, San Bernardino

December 2008

M.S. in Computer Science

Member of Upsilon Pi Epsilon

Overall GPA: 3.65

Master's Thesis: *Extensible Simulation of Planets and Comets*

Created an extensible celestial body simulator for the purpose of enhancing the study and visualization of our solar system and others. Using Python, Scilab, and OpenGL, along with complex numerical methods and gravitational functions, I performed calculations using the planets of our own solar system, giving us their orbits and a graphical visualization of the results. Further, using the resultant orbital data from the simulator, I performed detailed error analysis against the known data of our solar system to determine the simulator's accuracy.

California State University, San Bernardino

December 2003

B.S. in Computer Science

Overall GPA: 3.15

PUBLICATIONS

Extensible Simulation of Planets and Comets

Proceedings for the Third IEEE International Conference On Space Mission Challenges for Information Technology

July 2009

Outlines research and function of the Extensible Simulator of my Master's Thesis.

EXPERIENCE

Imagine Systems, Inc.

September 2004 - Present

Senior Software Developer

Redlands, CA

I am an extraordinarily motivated software developer who has created an extensive portfolio of web software solutions in my 13 years at Imagine Systems, Inc. I handle the entire software lifecycle, from meeting and determining the needs of the client, and overall project design and development including front-end user interfaces, business logic, middleware, web services, and relational database design. Being veritably customer-oriented, I utilize my advanced leadership skills to communicate and mentor junior team members, customers, and management throughout the process, to create superior software and support solutions.

Detailed achievements:

- Led software development team in the complete, full-stack design and implementation of a web-based warehouse inventory system requiring inventory tracking of multiple warehouses, order placement, automated communication on order progress, and shipping management. Created and currently maintain the database for this project including tables, their relations, constraints and stored procedures in addition to all front-end user interfaces. Employed object-oriented software design patterns for system authorization and management of users and their roles. Continually act as liaison to customer throughout the project life cycle, adapting to changing requirements, and advising management of viable software specifications as changes occur.

- Integrated client's existing inventory shopping solution for use with SciQuest's PunchOut API using cXML and the .NET stack.
- Critically evaluated multiple login databases for a single client, and led effective design efforts to consolidate them.
- Led evaluation and modification of repetitive password reset software across multiple web applications, advised management of a solution to consolidate, and successfully implemented solution using RESTful services.
- Collaborate with other engineers on restaurant order placement software, middleware, and databases, interfacing between the web, and kitchen printer hardware.
- Provide direction and mentoring to junior developers both on collaborative and independent projects, working with them to develop and analyze software requirements, and helping to solve any problems that they get stuck on.
- Present prototypes and storyboards to customer, concisely communicating software needs with the customer.
- Partner with team members to ensure that critical servers are successfully kept up-to-date with the latest software versions. Follow through to see the updates to a successful end.

TECHNICAL STRENGTHS

Programming Languages	C#, RemObjects Pascal, JavaScript, jQuery, HTML5, CSS3, SQL, PHP, L ^A T _E X, Python, Scilab, C++, Java
Frameworks & IDE's	ASP.NET, Visual Studio, Microsoft SQL Server Management Console, JetBrains PHP Storm, PHPMyAdmin, Wingware, Aptana
Databases	Microsoft SQL, MySQL, DBISAM
Protocols & APIs	XML, JSON, SOAP, REST
Versioning	SourceGear Vault Professional, Tortoise SVN/Subversion, Git
Other	Internet Information Services, Ajax Control Toolkit, NuGet, Apache, WordPress
Creative	Adobe Photoshop, Lightroom, Audition, Premiere Pro and InDesign, OpenGL, Nikon D40x & D810 DSLR Cameras