

## Jennifer Rawson

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### SOFTWARE/SYSTEM SKILLS

Languages: Java, C, PHP, Python, SQL, JavaScript, HTML, XML, CSS

Technologies: J2EE, Struts, Tiles, JDO, JBoss, Ajax, Prototype, Script.aculo.us

Databases: Oracle, SQL Server, MySQL, SQLite

Systems: Mac OS X, Linux

### EMPLOYMENT

1/09 – present TriActive Inc., Austin, TX

*Software Engineer*

Develop web-based software with Java/J2EE that assists businesses in the maintenance of their hardware, software, and networks. Collaborate with team members in a disciplined, Agile Development environment to deliver high-quality software in 2-month release cycles. Refactor existing software and create new modules to fulfill customer requests and implement new features. Work within the Apache Struts framework to maintain a Model View Controller paradigm throughout the application. Create web page templates and HTML forms using Tiles and J2EE technologies (JSP/JSTL/EL). Write Java modules that process form data, retrieve and write data to an Oracle database, and populate JSP pages. Create user interface components with JavaScript, Ajax, Prototype, and Script.aculo.us. Work with support and QA engineers to identify and fix bugs. Test data migration for software releases. Perform cross-browser/cross-platform testing to ensure that software functions correctly in multiple browsers/operating systems.

5/07 – 9/07 The Scientific Database Laboratory, The Evergreen State College, Olympia, WA

*Programmer, Research Assistant*

Assisted Professor Judy Cushing and her research team with web programming, Microsoft Access and SQL Server database management, and statistical analysis of ecological data. Created PHP web interface for SQL Server database, greatly simplifying ecological research efforts. Collaborated with researchers and students on statistical analysis of ecological data to discover correlations in the data and to create visualizations.

6/06 – 8/06 International Consulting Group Inc., San Jose, CA

*Web Designer*

Contracted with Apple Computer Inc. in the Cupertino, CA Support Division. Worked with product managers, content specialists, and web developers to create new web pages, update existing pages, conduct quality assurance testing, and optimize HTML/CSS/JavaScript for better performance. Proposed and executed plan to correct web browser compatibility issues, improving accessibility for users. Rewrote HTML/CSS site wide, reducing code by 50%.

9/05 – 6/06 Sesame Communications, Renton, WA

*Web Designer*

Designed and developed 25+ unique websites using Photoshop, HTML, CSS, and Flash. Followed written design specifications from art directors and utilized their feedback to improve designs. Followed consistent web development process, managed multiple projects simultaneously, and met strict deadlines. Implemented HTML/CSS compliant with W3C web standards. Designed and tested websites for compatibility with multiple screen resolutions, web browsers, and operating systems.

9/00 – 6/06      Self Employed, Seattle, WA  
*Web Designer & Graphic Designer*

Built websites for ecommerce businesses, brick and mortar businesses, and schools using HTML, CSS, PHP, MySQL, and JavaScript. Created user interface designs with Adobe Photoshop and Illustrator. Followed established W3C web standards and tested for cross-platform/cross-browser compatibility. Set up domain names, hosting services, and email for clients. Created dynamic PHP/MySQL websites using Texpattern and WordPress content management systems. Improved information architecture of sites resulting in improved search engine rankings and increased sales. Redesign of Bright Water School website increased traffic by 50% and boosted new student enrollment. Redesign of Joy's Waldorf Dolls ecommerce website improved Google ranking enabling the company to cancel paid Google ads and produced best Christmas sales in 14 years of business.

Clients included Marple's Pacific Northwest Letter, Joy's Waldorf Dolls, Bright Water School, Health Through Hypnosis, The Community School of West Seattle, Living Light Weight Loss Program, Kitchen Alegre, Eden Cultivation, Color Storm New Music Project, Wendy Amdal Salon, Cyn Gabriel, Debit Card Network, Teaching Lifetime Choices.

#### **EDUCATION**

June 2008      Bachelor of Science, Computer Science  
The Evergreen State College, Olympia, WA

June 2008      Bachelor of Arts, Liberal Arts  
The Evergreen State College, Olympia, WA

Coursework included Java, C, PHP, and Python programming, UNIX/ Linux systems programming, object-oriented design, software architecture, database design, SQL programming, data structures, algorithms, discrete mathematics, statistics, professional ethics, and critical writing.

#### **SENIOR THESIS**

9/07 – 6/08      The Hypothesis Project

*Synopsis:* A growing number of scientists and researchers use the Web to share data and collaborate on research in the belief that open discussion, cooperation, and transparency lead to more productive science. During my senior year at The Evergreen State College I designed Hypothesis, a Java application to allow research scientists to share data over the Web and collaborate on scientific research. It was developed after an extensive investigation into the technical barriers that scientists face in sharing data. The primary goals of the project were to allow researchers to connect to and browse a variety of database formats, share their own databases with others, and export data for manipulation in data analysis programs such as Microsoft Excel, R, S and scripts written in Python. For more information, please see: <http://jenrawson.com/files/rawson-hypothesis-report.pdf>

#### **AWARDS**

9/06 – 6/08      National Science Foundation Computer Science, Engineering and Mathematics Scholar