

**RICHARD L. ROSEN**  
402 Main St. – Suite 100 PMB164  
Metuchen, NJ 08840  
Phone: (917) 512-5038  
Email: rr-4work@neurozen.com

## OBJECTIVE

Experienced web application architect/developer with team leadership and management experience, diverse background in both front-end and back-end technologies, seeks challenging opportunities developing the next generation of web technology.

- **Programming Languages** – Java, Perl, Ruby, JavaScript, Objective-C
- **Markup Languages** – HTML, CSS, XML, XSLT, XPath
- **Web Application Development** – J2EE 1.4/Java EE 5, Struts, JSP 2.1, JSTL, JSF, Rails, AJAX
- **Database** – Oracle, MySQL, Hibernate, JPA, schema design and query optimization
- **Environments** – Windows (XP/Vista), Mac OS X (10.5/Leopard) , Linux (Ubuntu Jackalope)
- **Server Administration** – Apache, Tomcat, JBoss, Mac OS X, Samba
- **Design Patterns** – MVC, DAO, Factories, Façades, Core J2EE Patterns
- **Tools** – Ant, CVS, Subversion, Eclipse, JUnit, MockStruts, SSH (public key authentication & tunneling)

## JOB EXPERIENCE

*March 2006—present*

**INTERACTIVE DATA CORPORATION** New York, NY – *Technical Services Specialist / Software Architect*

- **Architected and developed web application for evaluating fixed income securities.** Created Struts Action classes that communicate with EJB3-based services and defer presentation to JSTL-based pages, ensuring end-to-end communication from persistence services to presentation layer. Developed Struts module as a generalized REST-based Web Services layer that formats requested data as XML, CSV, or JSON (for AJAX injection). Wrote EJB3 session beans as service classes to interact with Hibernate DAO persistence layer. Built application infrastructure including custom JavaScript utility functions to improve maintainability of third-party grid widgets. Agile development practices (continuous build, Subversion, JUnit, MockStrutsTestCase).  
**[JBoss 4.2, Struts, Oracle 10g, JSP 2.0, JSTL, Hibernate, EJB3, Dojo, AJAX]**
- **Enhanced Swing-based market data repository query and update application.** Migrated application to 3-tier architecture using JBoss 4.2 and added new functionality.  
**[Java 5/Swing, JIDE Dialogs, Oracle 10g, Hibernate]**

*February 2003—March 2006*

**DOW JONES / WALL STREET JOURNAL ONLINE** South Brunswick, NJ – *Application Architect*

- **Converted WSJ/Barron's site personalization from Vignette to a Struts application.** Re-engineered multiple online customer "setup center" services as a single Web application. Reworked underlying database schema for storing personalization settings and email alert signups. Developed a Java API for accessing this schema and applied it throughout the web site to ensure consistency, data integrity and CAN-SPAM compliance. Deployed on time to coincide with concurrent web site infrastructure enhancements.  
**[Websphere, Oracle, JDBC, Struts, JSP, JavaScript, CSS]**
- **Lead architect for personalized daily news digest email delivery service.** Led team that included two other Java developers to provide personalized email options that would keep WSJ.com competitive with other online information services. Added setup center functionality for customers to save new email personalization settings. Oversaw development of system to read those settings from the database and deliver individually constructed daily email digests. Integrated service into existing WSJ.com environment, using existing content management tools and SMTP servers without impacting ongoing editorial and bulk email functions. Delivered system on time as part of the new site features associated with WSJ.com's price increase on 7/1/2005.  
**[Java, JavaMail, Websphere, Struts, SMTP, JDBC, Oracle 9, LDAP]**
- **Technical lead for corporate-wide Bulk Email Infrastructure Project.** Led the effort to consolidate bulk email composition and delivery services for both customer-subscribed news alerts and targeted marketing messages sent by WSJ.com.  
**[LISTSERV, L-SOFT MAESTRO, LDAP, SMTP, ORACLE]**

January 2002—March 2003

**CONVERSION MARKETING (WALKER DIGITAL)** Stamford, CT – *Senior Software Developer*

- **Re-engineered online promotional application to incorporate MVC architecture.**  
Company's line of business was the display of web popups presenting an array of upsell offers to site visitors. Original application used the monolithic JSP anti-pattern with virtually no code reuse, with the simplest layout changes requiring developer intervention. Built custom MVC framework to replace the existing application and to foster best practices in development. Business staff was able to change page layouts and product placements much faster than they could previously. Wrote custom JSP tags for template processing and population of HTML form fields. Developed façades to extract data from business layer, which were easily reworked when the underlying data model changed.  
[Weblogic 5.1/6.0, MVC design pattern, Servlet API, JSP, JDBC, Oracle]

March 2001—November 2001

**TRIBECA SOFTWARE** New York, NY – *Senior Architect*

- **Designed and developed API to access sequenced results from non-uniform queries.**  
Built for a commercial software product that provided trending information about web site visitors, based on information stored in a star-schema data warehouse. The API assembled results from multiple sources into a single sequenced aggregation representing a “timeline.” It merged heterogeneous result sets into a collection where each sequenced entry was an instance of a custom type-safe Map class.

February 1999—March 2001

**INFORMATION ARCHITECTS** Hoboken, NJ – *Director of Application Architecture*

- **Managed the team that developed the company's XML Visual Platform product line.**  
Included a Java GUI application that displayed a web page in one pane and the page's DOM tree in another, allowing users to define HTML page fragments as reusable components for dynamic content syndication. Worked with business analysts and customers to formulate application requirements. Oversaw design, development and testing. Developed tutorial application and walkthrough lab exercise for training classes.
- **Developed a declarative means of accessing HTTP request attributes in templates.**  
ContextLookup class made headers, query string parameters, session variables, and authorization data accessible in a declarative fashion (e.g., "QUERYSTRING.parameter", "AUTH.user"). Used in page templates, parameterized SQL queries, and URL skeletons. (Predated JSP/JSTL expression language functionality by several years.)
- **Designed Tabular and QuerySpec APIs for SmartCode framework.**  
QuerySpec objects were SQL query skeletons whose substitution parameters came from a ContextLookup object, providing the equivalent of prepared SQL statements with substitutions pulled from the request context. Tabular objects were "windows" onto cached query results, displaying discrete subsets of the underlying data (e.g., 10 rows per page) without re-submitting the original query (Value List Handler core J2EE pattern).

January 1997—February 1999

**PENCOM WEB WORKS / NET QUOTIENT** New York, NY – *System Architect*

- **Supported and enhanced Outpost.com's external e-commerce site and intranet.**  
Wrote and enhanced Perl/CGI and Cold Fusion modules to display product info and search results. Added CyberCash service to scripts for real-time credit card verification.
- **Built web applications for clients like 3Com, Reuters, and Predictive Technologies.**

March 1995—January 1997

**PCS / INTERSOLV / NOBLESTAR** Parsippany, NJ – *Senior Applications Developer*

- **Built a centralized product information system for M&M/Mars using PowerBuilder and Oracle.**

January 1992—March 1995

**SPECTRUM TECHNOLOGY GROUP** Somerville, NJ – *Senior Consultant*

- **Developed GUI design & programming guidelines for AT&T American Transtech.**

February 1989—December 1991

**CANDLE CORPORATION** White Plains, NY – *Senior Software Engineer*

- **Wrote historical reporting component for Candle's OMEGAMON/DB2 product.**

January 1979—February 1989

**BELL LABORATORIES / BELLCORE** Piscataway, NJ – *Member of Technical Staff*

- **Led the team that conducted the first field test of DB2, and wrote the final report documenting the effort, which included a tutorial on relational database concepts.**

## EDUCATION

### STEVENS INSTITUTE OF TECHNOLOGY – Hoboken, NJ – *M.S. in Computer Science* (1987)

- Concentrations in relational database systems and artificial intelligence

### QUEENS COLLEGE (CITY UNIVERSITY OF NEW YORK) – Flushing, NY – *B.A. in Computer Science* (1979)

- Additional concentrations in media technology and music (music theory and electronic music composition)

## ADDITIONAL COURSES

- Java EE 5: Integrating JSF, EJB3, and JPA – *Learning Tree International course*
- iPhone Application Programming – *Stanford University CS193P (audited through iTunes University)*
- Fixed Income Markets I – *New York Institute of Finance*

## BIBLIOGRAPHY

- Leon Shklar & Rich Rosen (2009). *Web Application Architecture: Principles, Protocols, and Practices*, 2<sup>nd</sup> ed. New York: John Wiley & Sons.
- Rich Rosen (2009). *Using Your Mac Mini as a Home Server*. (work in progress)
- Brian Jepson, Ernest Rothman, & Rich Rosen (2008). *Mac OS X for Unix Geeks*, 4<sup>th</sup> ed. Sebastopol, CA: O'Reilly Media.
- Rich Rosen (2009). "There's a Newspaper in My iPhone." *O'Reilly Digital Media: Inside iPhone*. <<http://broadcast.oreilly.com/2009/04/theres-a-newspaper-in-my-iphon.html>>
- Rich Rosen (2003). "A Brief History of Tags." *Java Developer's Journal*, 8(6). <<http://java.sys-con.com/node/37549>>
- Rich Rosen (1999). "Who Says You Can't Take It With You?" *ColdFusion Developer's Journal*, 1(2). <<http://www.neurozen.com/resume/cfdj-article.pdf>>

## OTHER PROJECTS

- With co-author Leon Shklar, designed and implemented the **Virtual Realty Listing Services** sample web applications provided in our book, *Web Application Architecture: Principles, Protocols, and Practices*.
- Designed the companion web site for the book (<http://www.webappbuilders.com/>).
- *The Voice of Rosen* blog (<http://rlr.blogsome.com/>) includes articles on web application development, Mac OS X, and technology in general.

## REFERENCES

- Furnished upon request.