

BACKGROUND

INDEPENDENT CONSULTING AND WRITING

Author of the best selling books Exploring Java and Learning Java, O'Reilly & Associates. Learning Java is consistently one of the top selling Java books and is available worldwide in nine languages. It is used as the text for many University Java courses. Winner of the 2001 Java Pro Reader's Choice award for Best introductory Java book.

SPEC LEAD / MEMBER OF JAVA COMMUNITY PROCESS EXPERT GROUPS

Member of JCP expert groups JSR-274, JSR-223, and JSR-283 which defined new language features and APIs for the Java programming language. Work has included the javax.script API, Java Content Repository API, and BeanShell scripting language standardization.

INTELLECTUAL PROPERTY CONSULTING

Expert witness analysis and testimony. Cases:

- JPMorgan Chase vs. ACS. 08-CV-00189-SLR (D.DEL.)
- ePlus Inc. vs. Lawson: Deposed and testified at trial. 09-CV-620-REP (E.D.Va.)
- Augme Technologies Inc. vs. Tacoda LLC and AOL, Inc.: Deposed. 07cv7088-CM-GWG (S.D.NY)

EXPERIENCE

CTO, CHIEF ARCHITECT

Ikayzo Inc. - New York, Tokyo, Honolulu, St. Louis

2009-present

Ongoing work on advanced financial, networking, and iOS applications. Work on realtime network monitoring applications for Referentia, an advanced information technology company which contracts for DARPA and other defense agencies. Designed and developed realtime Options Pricing system for APM Funds. Work on an advanced financial analysis platform including development of a new scripting language incorporating features of C# and the R programming languages such as language integrated queries and statistical computing primitives. Work on advanced applications for Wells Fargo.

INDEPENDENT CONSULTING

Pat Niemeyer Consulting, LLC, St. Louis

2008-2009

Worked on projects including: the design of a highly scalable, behavioral targeting ad server platform for Value Commerce, the largest web advertiser in Asia. Work for Terracotta, a Java Virtual Machine clustering technology company. Software projects for the Army Corps of Engineers. Advanced iPhone application research. Design of a hotel set-top box platform for Activision TV. Prototyped a DRM'd video distribution platform for Eggup.com based on Adobe media rights management.

SENIOR ARCHITECT / CONSULTANT

Bank of America Securities, New York

2005-2007

Worked on the architecture and implementation of advanced Java middle tier systems and components. Areas included cross platform messaging, grid computing, and development of analytical applications utilizing Weblogic, Spring, Hibernate, JBoss Rules, Acegi and Securent security products, Gigaspaces, and various proprietary systems.

SENIOR ARCHITECT / CONSULTANT

Federal Reserve Bank of St. Louis

2004-2005

Application architect for the TGA Net government accounting system, which is assuming responsibility for U.S. federal cash deposits for all agencies. This is a web based application using Weblogic, Hibernate, Struts, and involved the development of secure XML based inter-bank communication protocols.

SENIOR ARCHITECT / CONSULTANT

Edward Jones, St. Louis

2003-2004

Participated in review and migration of enterprise applications to Weblogic J2EE architecture. Participated in application and architecture design reviews for performance and security issues. Lead team which developed a prototype application for the new platform using JSP and Struts front end with JOLT Tuxedo services for main-frame connectivity. Responded to Java questions and problems from developers and served in a mentoring role.

PATRICK NIEMEYER

SENIOR ARCHITECT / CONSULTANT

A.G. Edwards, St. Louis

2001-2003

Designed enterprise services and application architecture for A.G. Edwards. Participated in detailed review of an enterprise scale, client facing application using JSP, XML, and J2EE technologies including advanced Weblogic Clustering. Worked with BEA engineers and A.G.E senior staff on extensive redesign and simplification. Developed original tools for highly available, wide area distributed J2EE clustering on Weblogic, providing cluster health monitoring and automated cluster failover. Developed XML based tools for resource management. Mentored Java developers and groups on Java technology issues and responded to questions and problems.

SENIOR ARCHITECT / CONSULTANT

StreamSearch.com

1999 - 2000

Designed and developed components of a multi-tier Java Servlet and XML based multimedia search engine. The project utilized an XSL/XSLT based front-end enabling both end consumer and business-to-business sales of search results, co-branding, and partnering. Lead team which designed and developed a consumer oriented on-line music storage service. Project included large scale storage infrastructure, media content management and security, high scalability and high availability.

SENIOR ARCHITECT / CONSULTANT

Strata Group, Inc.

1998 - 1999

Designed and developed an advanced, Java based, telephone switch provisioning system. Project involved a multi-tier architecture with advanced GUI, application server components, rule based logic and evaluation framework, and a highly scalable communications layer using Sockets and RMI.

INDEPENDENT CONSULTING

1996 - 1998

Designed and developed of a suite of proprietary web based Java business applications for Technology Applications Inc. On-going consulting for Edward Jones, Inc. on Java applications and network infrastructure, system integration, etc.

PROCESS SPECIALIST

Southwestern Bell, Inc.

1995 - 1996

Developed interface components for the Advanced Intelligent Network project. Integration of Bellcore TOP-COM protocol and Tuxedo transaction processing for a Solaris/ Sparc 2000 platform.

SYSTEMS ARCHITECT CONSULTANT

Edward Jones

1994 - 1995

Worked in the New Technologies group on enterprise wide Client/Server migration and transition to Object Oriented development tools. Primarily responsible for the design and implementation of an ONC compliant RPC gateway for communications between EDJ's 4000 branches and an IBM mainframe over a satellite TCP/IP network. Project involved networked Transaction Processing, automated Code Generation, and GUI development. Provided analysis of CASE and Object Oriented tools, Inter-Process Communications mechanisms, APIs standards, and Design Methodologies.

MEMBER OF TECHNICAL STAFF

Southwestern Bell Technology Resources

1993 - 1994

Responsible for TRI's research and production UNIX networks and for development of the inter-subsiary Wide Area Network for which TRI provided Internet connectivity. Responsible for Internet Security and implementation of T.R.I.'s World Wide Web services. Provided production network and platform analysis for T.R.I.'s largest development group. Developed tools for Network Security and Software Management including an integrated user environment / software package system, system configuration software, and World Wide Web based employee locator, paging, and WAIS information systems.

SYSTEMS ENGINEER

Innerlink Systems, Inc.

1989 - 1993

Responsible for the design and development of all components of a large, UNIX based, Messaging, FAX, and Alphanumeric Paging system for the message service industry. Project included hardware integration and development of several real-time UNIX Device Drivers, reverse engineering and coding of a variety of standard and proprietary communications protocols, distributed system management, database design, and user interface development. System components included configuration and monitoring tools, software distribution and installation mechanisms, and early Internet Gateway software.