

Brian Repko

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Profile

Software engineer with over 25 years experience, most at the project lead and architect level. Successful in leading large projects to on-time and on-budget delivery. Highly skilled in Java enterprise and desktop software, using a wide variety of tools, libraries and processes. Expert knowledge of BEA WebLogic Server and the Spring Framework. A positive influence on teams – focus on growth through training and mentoring for both technical and non-technical team members.

Professional Skills

Programming Languages	Java, Groovy, Javascript, Scala, C, C++, C#, shell scripting, SQL, Perl, Ruby, Pascal, Lisp, IDL, Fortran, M(umps), DIBOL/DBL
Java	Java SE (v1.0-v6) [Swing, JDBC, JPA, JNDI, RMI, JMX, base libraries], Java EE (pre-v1.2-v5) [Servlets, JSP, JSTL, EJB, JAX-WS, JAX-RS, JMS, JavaMail, Java Connectors, JTA, JAAS], Spring Framework, Spring Security, Struts / Struts2, Stripes, Spring MVC, WebWork, Wicket, Tiles, Sitemesh, Seam, Spring Web Flow, Portlets, Hibernate, iBatis, Quartz, JCR, various caching systems
Non-Java	COM/DCOM/COM+, .NET Framework (1.0 to 2.0) [Web Services, Remoting, Serviced Components, Windows Forms], CORBA
Web and XML	(X)HTML, CSS, XML (DTD, XML Schema), Flex, Dojo, JQuery, Appcelerator, XSL-T, XSL-FO, REST, WS-* based Web Services (SOAP, WS-Security, WSDL, UDDI, MTOM), ebXML, EDI-INT
Infrastructure Tools	BEA WebLogic Server (v5-v9), IBM WebSphere AS (v3.5-v6), SunAS (v9.1) / Glassfish (v2), Tomcat (v3-v6), JBoss AS (v3), Jetty, BEA WebLogic Portal 8.1, IBM WebSphere Portal 5, Microsoft IIS, Apache HTTP Server, Oracle (v8-v11g), MS SQL Server (2000), HSQLDB, Apache Derby (JDK DB), IBM MQ Series, TIBCO Rendezvous
Development Tools	Eclipse, NetBeans, IntelliJ IDEA, jEdit, IBM WSAD, Visual Age for Java, Borland JBuilder, Borland C++ Builder, Rational Rose, Microsoft Visio, Rational Requisite Pro, CVS, Subversion, Git, Mercurial, PVCS, Visual SourceSafe, Ant, Maven, Ivy, Gradle, JUnit, TestNG, JUnitPerf, EasyMock, JMock, FIT, Fitnesse, DBFit, Selenium, JBehave, JMeter, JAMon, CruiseControl, Hudson, VersionOne, Rally, JIRA, Bugzilla, XPlanner, various Wikis
Operating Systems	Microsoft (NT/2000/XP/Vista), Unix (Solaris, AIX, HP-UX, SCO), Linux (desktop / embedded), VMS (OpenVMS, VAX-VMS), OS400
Software Engineering	UML, Agile, Scrum, XP, Lean, Crystal, Unified Process, Feature Driven Development, Test Driven Development, Domain Driven Development

Professional Experience

05/2006 to present LearnThinkCode (Software Consulting) – **President**
5245 Drew Avenue South, Minneapolis, MN 55410

Architect / Agile Coach (since Sep 2010; CIGNA)

Serving as both Architect and Agile Coach on the customer-direct online health advocacy platform. Responsible for high-level designs and technical mentoring as well as rollout of agile methodology for web and mobile-based extension of core advocacy platform. Solution was Spring MVC-based web application with core services, based on the Spring Framework also exposed via REST (using CXF). Spring MVC-based web application rendered dynamic assessments using Metawidget framework and personalized coaching via FreeMarker.

Senior Developer (5 months; Business Incentives)

Serving as Senior Developer on a variety of initiatives – internationalizing a SaaS-based system using Struts2, Spring and Hibernate; creating B2B Web Services using JAX-WS, WS-Security, CXF, Spring and Hibernate; and a Proof-of-Concept related to Google Translation – all on Glassfish v2.1.1.

Workstream Lead (8 months; Thomson-Reuters Legal)

Serving as both Agile Coach and Architect for multiple project teams within a multi-project program. Responsible for rollout of Agile methodology as well as high-level designs and technical mentoring for multi-year mission-critical

rearchitecture program. Solution was RIA with REST-based services utilizing Javascript, Flex and BlazeDS on the user interface and Jersey/Spring/JPA/Hibernate for the services running on Tomcat and Oracle 11g.

Technical Architecture / Agile Coach (10 months; Business Incentives)

Serving as technical architect for SaaS-based system using Struts2, Spring and Hibernate on SunAS 9.1 / Glassfish (JavaEE 5) and Oracle 10g. Agile Coach and Mentor for offshore development team. Lead for subteam responsible for development of SaaS-based Content Management System.

Technical Architecture (12 months; Business Incentives)

Serving as lead technical architect for 60 developer organization and specifically on three projects. Training and mentoring architects, developers and designers in Java, Struts, Spring and Hibernate.

06/2007 to William Hill plc (Bookmaker) – **Agile Coach / Technical Architect**
01/2008 2 City Walk, Leeds, West Yorkshire, LS11 9AR, England

Next Gen / Remote Channel Integration Programme (9 months)

Agile Coach and Senior Developer for three of five teams within a programme to implement William Hill's NextGen architecture. Promoted to Scrum Master and Technical Architect for the Online Sportsbook (bet slip and data cache functionality) team. Solutions focused on full use of Spring Framework, Hibernate and Tangosol cache on WebLogic 9.2 and Oracle 10g. Testing tools included FIT, Fitness, Selenium and DBFit.

06/2004 - Object Partners (Software Consulting) – **Senior Architect**
05/2006 100 N 6th Street, Suite 302A, Minneapolis, MN 55403
<http://www.objectpartners.com>

Platform Rearchitecture (15 months; Business Incentives)

Technical project manager and architect on a rewrite / rearchitecture of a mission-critical modular application. Agile practices used throughout (Requirements, QA, Development) with a 25 person team. System was architected using Apache Struts, Spring, Hibernate and Quartz on WebLogic 8.1 and Oracle 10g. Development relied heavily on technologies such as VQWiki, XPlanner, JUnit, EasyMock, CruiseControl and Selenium.

Java Mentoring (3 months; Thomson-Reuters Legal)

Developed and presented multiple Learning Sessions on various Java / J2EE topics. Worked with Technical Leads and Architects on implementing best practices and solving high priority issues. Mentored 3 individual developers on Java, J2EE and Tomcat.

Caché-Java Integration POC (2 months; HealthPartners)

Lead J2EE developer on proof-of-concept project to develop best practices around integration of Java with existing and new Caché/MUMPS code.

WebLogic 8.1 Migration and Security Infrastructure (2 months; HealthPartners)

Rearchitect / redesign existing WebLogic 6.1 custom security realm to WebLogic 8.1 security framework. Developed, tested and trained staff in implementation and new MBean-based (JMX and JAAS) security framework.

08/2003 - Brulant (Software Consulting) – **Technical Architect**
06/2004 3700 Park East Drive, Suite 300, Cleveland, OH 44122
<http://www.brulant.com>

B2B (demand chain) Portal (5 months; Kitchler Lighting)

Lead team of 6 developers on creating dealer and sales representative portal using WebLogic Portal 8.1 and Apache Struts.

B2B (supply chain) Portal / Java Training (3 months; MTD Products)

Initially served as lead for team of 4 developers on creating supplier portal using WebSphere Portal 5.0 and Apache Struts. Taught courses for mainframe programmers on Java, J2EE and Apache Struts.

Application Performance Assessment (2 months; Avery-Dennison)

Assessed application source code for performance issues and developed strategies that improved performance of the application by 20%. Developed EJB monitoring framework for capturing EJB pool sizing information and sample application to demonstrate use of performance gathering tools.

Security and Application Assessment (3 months; GeoTrac)

Performed and documented full IT assessment for AS400, Solaris and Windows infrastructure. Performed application assessments for J2EE applications. Developed migration plan for applications from AS400 to J2EE.

Lead System Integrator (8 months; ICI Paints)

Served as global administrator for WAS 4.0 and Commerce Server running on Solaris 8. Deployed all applications from various worldwide regional developers to shared clustered environment hosted with British Telecom.

05/2000 - nVISIA (Software Consulting) – Principal Consultant

08/2003 100 E Wisconsin Avenue, Suite 2510, Milwaukee, WI 53202

<http://www.nvisia.com>

B2B (Supply Chain) Integration (2 months; Harley-Davidson)

Developed the software requirements, initial software architecture and system design for a B2B integration system for the remote distribution of Hazardous Material.

Patient Data Acquisition Device (3 weeks; GE Medical Systems)

Developed the initial, high-level software design for a hard real-time C++ medical data acquisition system to be deployed on custom hardware running a custom Linux kernel.

B2B (Supply Chain) Integration (9 months; Harley-Davidson)

Developed the software requirements, software architecture and system design for a B2B integration solution to enable key supplier (packaged parts) outsourcing. Solution integrated supplier system (VisualBasic architecture) with client system (Java / AS400 system) using web services and Mitem terminal emulation software. Case study delivered as session at DCI / Meta conference in April, 2003.

Software Architecture (16 months; Harley-Davidson)

Developed and taught best practices related to J2EE software development and Rational Unified Process. Documented standards for the use of various tools including WebLogic Server, Rational Rose, JBuilder, Ant and PVCS as well as other facets of J2EE development and standards. Designed and helped implement various frameworks (logging, EAI and J2EE) and other reusable assets for J2EE development and Java-based EAI. Oversaw the project process and deliverables of all nVISIA staff assigned to the various (11) software development projects. Responsible for all quality assurance tasks, as well as design and code reviews. Involved, as needed, in the mentoring of client staff assigned to these projects on Rational Unified Process and J2EE, XML and Web technologies. Typically developed the initial requirements and software architecture definition for various projects.

Global Distribution Information System (5 months; Harley-Davidson)

Lead a team of four in an evolution cycle of a Global Distribution Information System. This was both a mentoring and software development project for the client, thus allowing them to take ownership of the system.

Initial Requirements / Architecture (3 months; Venture Capitol Opportunity)

Documented the architectural requirements and developed the initial architecture for a patentable / proposed B2B2C software system. This project involved researching and explaining the interactivity of various standards in the B2B and B2C environments including ebXML, cXML, CBL, eCo, UCCnet, GCI, UDDI, SOAP and WSDL. Prototypes, UML models and technical white papers were developed for the client's marketing and funding efforts.

Global Distribution Information System (8 months; Harley-Davidson)

Designed, implemented and mentored a JSP/EJB-based framework (BMP) as well as a custom pseudo-EJB container. The framework provided client staff with the ability to rapidly learn and develop highly maintainable code for large mission-critical systems. Designed and implemented key architectural components of the GDIS system including security services, AS/400 connectivity, event notification and auditing. Designed and implemented a rules-based engine for complex logic related to changes to the distribution channel thus insuring data integrity with minimal user input.

07/1998 - High Gear (Software Consulting) – Senior Consultant

05/2000 125 N Executive Drive, Suite 107, Brookfield, WI 53005 (US)

Underwriting Repository (23 months; E.H. Boeckh)

Project Lead for team of six in rich client / EJB project in the delivery of the Underwriting Data Repository system, a mission-critical data warehouse, research, analysis and production system for all underwriting products. The software was developed using Objectory (now RUP) and User-Centered Design (CARD) methodologies. Developed persistence framework for BMP-EJB. All team members were new to object-oriented programming.

04/1993 - EMS / Workwise (Software Provider – Manufacturing) – **Software Engineer**
07/1998 12000 W Park Place, Milwaukee, WI 53224
<http://www.workwiseinc.com>

Designed and developed (product and customization) manufacturing software suite (ERP, SCM, MES). Developed curriculum for training staff in C++ (for rewrite from DIBOL/DBL).

05/1991 - Epic Systems (Software Provider – Healthcare) – **Software Engineer**
04/1993 5301 Tokay Boulevard, Madison, WI 53711
<http://www.epicsystems.com/>

Designed and developed hospital and clinic Billing and A/R software systems (in MUMPS).

Education

09/1988 - Master of Arts
05/1991 Mathematics
University of Wisconsin, Madison, WI

09/1984 - Bachelor of Science (Honors)
05/1987 Computer Science, Mathematics and Philosophy
University of Wisconsin, Madison, WI

Certifications, Publications and Presentations

11/2011 - President – OTUG (future)
11/2012

01/2011 *Tests That Tell the Story of the Product (session lead / part of panel)*
CODE Freeze 2011, Minneapolis, MN

04/2010 *Test Driven Development (beyond JUnit) with JBehave*
Java Users Group, Minneapolis, MN; Milwaukee, WI; and Madison WI

06/2008 *HTTP Push Technologies*
Java Users Group, Minneapolis, MN

10/2005 *WebLogic and Spring Configuration*
Architect Roundtable, Minneapolis, MN

06/2005 *Spring Application Framework*
Java Users Group, Minneapolis, MN

04/2005 *Application Performance with JAMon and JMeter*
Java Users Group, Minneapolis, MN

10/2003 *Web Services - Separating the Hype from Reality*
CIO Roundtable, Cleveland, OH

08/2003 *J2SE and J2EE Security*
Client (DotCom), Chicago, IL

07/2003 *Web Services – Java and .NET Interoperability*
Client (Financial Services), Cleveland, OH

07/2003 *Java Regular Expressions*
Java Users Group, Cleveland, OH

04/2003 *Improving the Harley-Davidson Supply Chain*
DCI / Meta Web Services Conference, San Francisco, CA

04/2001 - Vice President – Wisconsin Java Users Group
08/2002

03/2002 - Board Member – Wisconsin BEA Users Group
08/2002

12/1999 Sun J2EE Certified Enterprise Architect

08/1999 Sun Java Certified Programmer