

**TECHNICAL EXPERTISE**

<b>Languages</b>	Java, SQL, Perl, JavaScript, C++, C, Python, C#, Google Web Toolkit, Silverlight
<b>Operating Systems</b>	Linux, Windows
<b>Database</b>	Oracle, SQL Server, MySQL, PostgreSQL
<b>Tools</b>	Weblogic, JBoss, Websphere, Apache Tomcat, Struts, Java Servlets, JSP, JSP Tag Libraries, J2EE, EJB, Ant, Swing, JUnit, AWT, Web CGI, CVS, Subversion, Visual C++, SWT, UML, HTML, XML, XSLT, JMS, GWT, CORBA, SOAP, JSON-RPC
<b>Other</b>	OOD/OOP, AOP, TCP, Firewalls, Internet, JDBC, ODBC, Arduino, ARM embedded development

**PROFESSIONAL EXPERIENCE**

**QFlow Systems - St. Louis, MO**

**December 2004 - Present**

*Senior Developer*

Designer and developer for web based document management and workflow application.

- Designed and implemented HTML/AJAX based document management system.
- Designed and implemented conditional work flow engine supporting static and dynamic workflows
- Designed JSON/XML based web interfaces
- Designed and implemented aspect oriented based transaction manager enabling existing code to be transaction aware with little to no code changes.
- Implemented POI/PDF based printing infrastructure.
- Receive GIAC Secure Software Programmer-Java (GSSP-JAVA) certification.
- Perform security audits on multiple web based applications
- Audit and update multiple applications for 508 Rehabilitation Act compliance.

**Environment: XP, Test first, Java, XML, XSLT, OOD/OOP, Oracle, CORBA(VisiBroker and JacORB), IntelliJ and Tomcat.**

**Monsanto - St. Louis, MO**

**August 2003 – December 2004**

*Consultant*

Designer and developer for internal genomics applications.

- Maintained and redesigned Java Swing applications that are used to genotype plant and animal specimens.
- Migrated applications from VisiBroker to JacORB.
- Upgraded multiple applications to Java 1.4
- Designed and implemented XML based metrics logging for multiple applications.
- Performance tuning for Java and Database processes.
- Rewrote large molecular fingerprinting PL/SQL procedure in Java for speed and maintainability. Utilized multithreading to decrease processing time by over 50 percent.
- Implemented POI based reporting infrastructure.

Environment: XP, Test first, Java, XML, XSLT, OOD/OOP, Oracle, CORBA(VisiBroker and JacORB), IntelliJ and Tomcat.

**Maritz - St. Louis, MO**

**October 2002 – August 2003**

***Consultant***

Developer for customer facing performance improvement applications.

- Utilized Java, XML, XSLT, HTML, CSS, and JavaScript to implement enhancements to multiple client websites.
- Refactored multiple sites to current design and interface standards.
- Designed and implemented a rule based user management system utilized across multiple projects.
- Generated PDF reporting infrastructure via XSL-FO and FOP.

Environment: Java, XML, XSLT, OOD/OOP, MS SQL Server, JRun, JBuilder and Eclipse.

**World Wide Technology - St. Louis, MO**

**April 2000 – October 2002**

***Senior Developer***

Technical lead and developer for multiple E-Business and E-Commerce web based applications.

- Designed and implemented core component architecture used in multiple Swing based GUI applications.
- Created JSP Tag Library infrastructure used in multiple web applications.
- Designed user input validation system used by both web and Swing clients.
- Created EJB stateless session beans to interface with Oracle ERP and custom database tables.
- Developed Ant based build process and converted existing build scripts to Ant.
- Lead team in transition to Concurrent Versions System (CVS) version control software.
- Authored Java coding standards used by team.
- Estimated development effort for both web and Swing based applications.
- Mentored new team members on Java, OOD practices, web and Swing based application development.
- Implemented web based application written in ASP/VBScript/TSQL accessing a SQL Server database.

Environment: XP, Test first, 3-tiered architecture, Java, Swing, Struts, Tag Libraries, JSP, OOD/OOP, Oracle, EJB, and Weblogic application server.

**Westar Corporation - St. Louis, MO**

**May 1998 - April 2000**

***Java Programmer***

Designed and developed multiple applet based client server applications.

- Designed and implement multiple AWT based GUI components.
- Developed lightweight HTTP based RPC protocol to plug into existing RMI based applications.
- Created NT Services to handle startup and shutdown of Java based server.
- Implemented batch script based build process.
- Implemented install and setup routines for Java based applications.

- Created SQL scripts to upgrade/install database schema.
- Administered company wide CVS server.

Environment: 3-tiered architecture, Applet, Java, Microsoft Access, Oracle, PostgreSQL, Visual Café, and Visual C++

**Boeing - St. Louis, MO**  
**Consultant**

**May 1997 - May 98**

Performed automated testing of real time mission computer used by the U. S. Navy F/A-18. Responsible for design, development and maintenance of black box integrated testing scripts.

- Developed and maintained testing scripts for black box testing.
- Maintained C based testing software used by team.
- Designed web based software used to track test results over multiple releases.

Environment: Irix, Solaris, RCS, C and proprietary testing language

## **EDUCATION**

BS degrees in Electrical and Computer Engineering  
Minor in Mathematics  
University of Missouri, Columbia, 1992-1997

## **CERTIFICATIONS**

Sun Certified Java Developer  
January 2002  
Sun Certified Java Programmer  
February 2001  
GIAC Secure Software Programmer-Java  
February 2009