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EXPERIENCE

09/2001 – Present University of Minnesota – Industrial Relations Center Refrence Room Minneapolis, MN
Java Architect

- Design and development of the online catalog for the Industrial Relations Center (IRC) Reference Room DBTextwork textbase.
- The online catalog is a n–tiered web–based application developed under Linux. Deployment is under Linux.
- Uses EasySoft's JDBC to ODBC Bridge to connect to the DBTextworks textbase residing on a Windows 2000 server.
- Followed rules and practices of extreme programming, including extensive unit testing, paired programming, and refactoring.
- **Technologies used**: Extreme Programming, Paired Programming, JUnit, Refactoring, JDBC, XML, W3C DOM, Java Patterns, Log4J, ECS, ORO, Regexp, javamail, JNDI, Java Reflection, Java Beans, RMI, Servlets

04/2000 – 06/2001 Food for the Hungry United States Scottsdale, AZ
Java Architect

- Esponsorship is a n–tiered web–based application developed under Windows and Unix. Deployment is under Unix
- The Presentation tier was created using JSP, Java Servlets and Javascript
- The Business tier was developed using Jakarta Tomcat
- JNDI was used to develop user authentication and authorization classes for accessing a directory server for user information
- JavaMail was used to develop an anonymous email system to protect the users' identities. The JavaMail IMAP API was used to develop a web–based email system similar to hotmail
- Log4J is used to provide real–time logging from the application. The XML generated output from Log4J is sent to a notification system to allow help desk personnel to react quickly to any detected problems
- Developed several Java classes to process credit card transactions via Cybercash Internet payment service
- The Business Tier was developed using JDBC and MySQL database
- **Technologies used**: JDBC, XML, W3C DOM, Java Patterns, Log4J, ECS, ORO, Regexp, javamail, JNDI, Java Reflection, Java Beans, RMI, Servlets, Cybercash

11/2000 – 05/2001 Food for the Hungry United States Scottsdale, AZ
Java Architect

- Nationshapers is a 3–tiered web–based application developed under Windows and Unix. Deployment is under Unix
- The Presentation tier was created by converting html into its DOM tree representation and manipulating the DOM tree with the W3C Document Object Model Java classes
- The Business tier was developed using the Enhydra application server. Extensive use of Enhydra session management, database management and connection pooling were used throughout the project. The Enhydra user authentication and authorization objects were extended to support JNDI so a directory server could be used for user information
- The Database tier was developed using JDBC and MySQL database
- Using a DOM based presentation layer allows the web site to easily support additional presentation models, like wml, wap or iDEN
- **Technologies used**: Enhydra, JDBC, XML, W3C DOM, Java Patterns, Log4J, javamail, JNDI, Java Reflection

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EXPERIENCE (continued)

10/2000 – 12/2000 Food for the Hungry International Versoix/Geneva, Switzerland
Java Architect

- IRN is 3–tiered web–based application developed under Windows and Unix. Deployment is under Unix
- The Presentation tier was created by converting html into its DOM tree representation and manipulating the DOM tree with the W3C Document Object Model Java classes
- The Business tier was developed using the Enhydra application server
- The Database tier was developed using JDBC and MySQL database
- The total separation of the presentation from the back–end logic allowed for parallel development between the html designers and the Java developers
- Using a DOM based presentation layer allows the web site to easily support additional presentation models, like wml, wap or iDEN
- **Technologies used:** Enhydra, JDBC, XML, W3C DOM, Java Patterns, and Log4J

09/1999 – 10/1999 National Football League New York, NY
Developer

- BlitzWEB is the web front–end to the BlitzNET database
- BlitzWEB is a set of static html files and corresponding Java servlets that allow the NFL data partners to recall any past NFL game and issue commands, through the servlet, to begin a replay of the game
- This allowed the data partners to test their application on real data in an environment as close to production as possible
- **Technologies used**: JDBC, servlets

08/1998 – 10/1999 National Football League New York, NY
Developer

- BlitzNET is a client–server application written in C++ for NFL Enterprises
- BlitzNet client was written in C++ for SCO Unix and deployed in all 32 NFL stadiums
- The BlitzNET client was installed on the official gameday statistical system and was responsible for sending live stats feedback to the distribution center (DC) located in Minnesota
- The BlitzNET server was written in C++ and developed for Solaris 2.6. The server's responsibility was to listen for incoming BlitzNET client requests, accept those requests, parse the data–stream, save the resulting dataset into a database and retransmit the data to the NFL data partners, which included www.nfl.com, SportsTicker, FoxSports, TimeWarner and Elias Sport Bureau
- **Technology used**: sockets, named pipes, shared memory, C++, ODBC, Purify, Pure Coverage

AFFILIATIONS	2/2001 – Present	OpenNMS	Quality Assurance
	6/1999 – Present	Open Source Developer Network	Member
	1/1999 – Present	Twin Cities Linux Users Group	Co–founder and Users Group System Administrator
	9/1995 – Present	Vanilla Netrek Server Group	Developer/Administrator
	6/1992 – Present	Crossfire Development Team	Developer

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SKILLS

Skill Name	Skill Level	Last Used	Experience
Apache Web Server Administrator	Expert	Currently used	5 years
Concurrent Versions System (CVS)	Expert	Currently used	5 years
DBTextWorks/Textbases	Intermediate	Currently used	1 year
EasySoft ODBC–JDBC Bridge	Intermediate	Currently used	1 year
EJB	Beginner	Currently used	1 year
Enhydra Application Server Administrator	Expert	Currently used	1 year
Extreme programming	Intermediate	Currently used	1 year
HTTPUnit	Intermediate	Currently used	1 year
Jakarta Ant	Intermediate	Currently used	1 year
Jakarta Cactus	Intermediate	Currently used	1 year
Jakarta ECS	Expert	Currently used	2 years
Jakarta Log4J	Expert	Currently used	3 years
Jakarta ORO	Expert	Currently used	3 years
Jakarta Regexp	Intermediate	Currently used	2 years
Javamail	Expert	Currently used	2 years
JCE	Intermediate	Currently used	1 year
JCIFS	Beginner	Currently used	1 year
JDBC	Expert	Currently used	2 years
JMS	Beginner	Currently used	1 year
JNDI	Expert	Currently used	1 year
JSP	Expert	Currently used	2 years
JSSE	Intermediate	Currently used	1 year
JUnit	Intermediate	Currently used	1 year
RMI	Expert	1 year ago	1 year
ServletUnit	Intermediate	Currently used	1 year
SOAP	Beginner	Currently used	1 year
Tomcat Application Server Administrator	Expert	Currently used	2 years
XML–based Web Publishing (Cocoon)	Intermediate	Currently used	1 year
XML parsers (Xerces, Crimson)	Intermediate	Currently used	1 year
XSL Formating objects (FOP)	Intermediate	Currently used	1 year
XSLT stylesheet processors (Xalan)	Intermediate	Currently used	1 year

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REFERENCES

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