

David L. McReynolds
1955 Wenlok Trail Marietta, GA 30066
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Summary

16+ years software development, concentrating on distributed systems. Pragmatic and logical thinker with an emphasis on quality and doing the right thing.

UNIX and Windows
C/C++/Java,J2EE
Servlets,TCP/IP, Sockets

CORBA, RMI, JINI
JDBC,JMS,JSP,Struts, AJAX
M.S.C.S., B.S.E.E.T

Education

1999 Southern Polytechnic State University Marietta, GA
Master of Science / Computer Science
Thesis Title: Subject-Oriented Programming: New Paradigm For Distributed Computing
1992 Southern Polytechnic State University Marietta, GA
Bachelor of Science / Electrical Engineering Technology
Communications Option

Publications

Java Collections, Java Developer's Journal, Vol. 9 Issue 2, Feb 2004

Subject Oriented Programming: An Evaluation with the Process and Object Paradigms,
Proceedings of the 37th ACM Southeastern Regional Conference, Mobile, Alabama, April 1999.

Employment History

02/05 – present, **Daugherty Systems, Sr. Consultant**. Develop custom solutions for Daugherty's customers utilizing Java/J2EE including JSP and Jakarta Struts.

- [Affiliated Computer Services](#). Lead architect for project converting MS Access application to standard J2EE web application. Responsible for coding standards, performance, work assignments, task estimates. This project was particularly challenging due to the amount of processing required for each page. To mitigate this risk, the project made copious use of AJAX and tree structures along with some stored procedures. I created all graphics used on the site in GIMP. I created and maintained all of the CSS used on the site. I designed the database, wrote the DDL and created the Hibernate mappings.
- [Southern Association of Colleges and Schools](#). Created web application to allow school officials and instructors to submit research contributing to a world-wide education body of knowledge. The system allowed SACS reviewers to review submitted content, classify the content and approve/disapprove/archive the content. The system used JSP/Struts/Ajax and web services.
- [Savvis](#). Savvis was hired to host approximately 400 J2EE applications for Coca-Cola. Daugherty was contracted by Savvis to reviewed Savvis' deployment process in an effort to reduce the amount of resources required. Trained Savvis employees to deploy J2EE applications on IBM Websphere+IHS servers. Also, trained the support staff in the verification of deployments and first level troubleshooting. Created processes in Bourne Shell scripts to automate deployments reducing time required from 30 minutes to about 10 seconds.

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- [CheckFree](#). Contracted to review the software architecture of CheckFree on-line bill pay. Created a set of guiding principles CheckFree should strive to adhere to when developing software systems. Used various metrics(LOC, McCabe Cyclomatic Complexity, Weighted Methods per Class, Afferent/Efferent Coupling) to critique software system's support for the guiding principles.
- [Chick-fil-A](#). Developed a web base budgeting application and a job applicant tracking system employing JSP/Struts. Wrote Struts actions, JSP and JavaScript, EJBs and DAOs. Mentored team member on Java, JSP, Javascript, Struts, general web development. Developed reusable store location lookup service using servlets and AJAX.
 - Technologies:JBoss, AJAX, Hibernate, Weblogic, Websphere, Eclipse, Java, EJB, JavaScript, Ant, JSP, Struts, CVS, Subversion, StarTeam

02/04 – 02/05, independent consultant.

- [Chick-fil-A](#). Developed web based labor scheduling application employing JSP/Struts. Wrote Struts actions, JSP and JavaScript. Utilized CSS to control look and feel.
- [ADP](#). Developed portlets for ADP EIA effort using JSP/Struts. Working in the USS department on ADP's Enterprise Portal project. Took business requirements document and developed software functionality utilizing JSP/JSTL/Struts on IBM's Websphere (WSAD). Created SQL scripts for Oracle database to create tables, indexes and updates.
- [ClearNova](#). Originally hired as Senior Developer for a web based travel solution. Took on Sales Engineering role. Prepared demonstrations of ClearNova's ThinkCAP product. Met with prospective customers. Developed proof of concept based on customer input.
 - Technologies: Oracle 10g, Websphere, JBoss, J-Developer, WSAD, Eclipse, Java, JavaScript, Ant, JSP, Struts, RCS, CVS, ClearQuest, ClearCase, ER-Win

12/02 – 02/04, **Daugherty Systems, Consultant**. Develop custom solutions for Daugherty's customers utilizing Java/J2EE including JSP and Jakarta Struts.

- GE Power Systems. Developed a maintenance contract modeling system for turbine generators. Created use cases and screen specifications for web-based applications. Developed screen mock-ups employing HTML. Utilized JUnit to test implementations. Created class diagrams for various aspects of the front-end system. Designed/created Struts forms and actions. Discovered flaw in several singleton classes, and recommended solution. Removed homegrown collections code and replaced with standard Java API. Developed utility using reflection to convert Java beans to XML.
 - Technologies: Java, Ant, Struts, JUnit, Weblogic, Eclipse, Jboss, Oracle, OJB, CVS, Unix (Linux), ksh.

08/02 - 12/02, **Datalex Communications USA, Senior Architect** (Contract). Developed custom solutions utilizing Datalex's on-line travel booking engine, Bookit Matrix written in Java running against Oracle or MS SQL Server.

- Interfaced with customer on discovery of system requirements.
- Documented system requirements, create software design document.
- Developed air discount bean that allows ATA to offer dollar or percentage off in select markets.
- Oversaw the inclusion of multiple passenger types for ATA's web site.
 - Technologies: Java, Ant, Source Integrity, Weblogic, Eclipse, iPlanet, Oracle, MSSQL, XML, Object Matter, Jini, RMI, JMS, JSP, Unix (AIX, Solaris), ksh.

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03/02 - 06/02, **Mentisys Inc., Senior Software Engineer.** Provided custom web applications for CitiGroup's IT department in the areas of project management and communications circuit orders running on Solaris with BEA Weblogic application servers.

- Designed/implemented EJBs and DAOs utilizing J2EE patterns.
- Reduced Clear Case repository artifacts to 2500 items down from 15,000 items.
- Designed/implemented Jakarta Struts Form and Action classes.
- Supervised/mentored junior engineers.
- Created project schedules.
 - Technologies: Java, JSP, Struts, Ant, Weblogic, Eclipse, Oracle, Rational ClearCase

06/99 - 03/02, **Datalex Communications USA, Senior Architect.** Lead teams of 3 to 5 engineers providing custom implementations of Datalex's 3-tiered web based travel reservation system running on Solaris and/or Windows with iPlanet or BEA Weblogic.

- Improved flight search performance by 45%.
- Created messaging system with Jini/RMI and JMS. Datalex's first JMS application.
- One of the first developers within Datalex to use Jakarta Ant.
- Designed/implemented early version of object persistence framework.
- Lead project to integrate booking engine with tours product.
- Tech lead on project for TravelersAdvantage.com.
- Develop system architectures in UML utilizing SA2001 and Rational Rose.
- Mentored customers in JSP development.
 - Technologies: Java, Ant, Source Integrity, Weblogic, Eclipse, iPlanet, Oracle, XML, Object Matter, Jini, RMI, JMS, JSP, CORBA, Unix (AIX, Solaris), ksh.

01/96 - 06/99, **S2 Systems Inc., Senior Software Engineer.** Designed/implemented S2 Systems real time application messaging framework, Network Express. Specialized in the TCP/IP communications handler.

- Improved reliability of TELNET protocol handler.
- Designed/implemented CORBA/C++ service to allow Java GUI client to configure and control Network Express. S2's first CORBA application.
- Integrated NetX with Terisa Systems and RSA BSafe, SSL.
- Lead classroom instruction in NetX.
 - Technologies: C/C++, Unix (AIX, HPUX, FTX), PVCS, CORBA, Java, Sockets, TCPIP, ksh.

03/95 - 01/96, **Keane Inc., Programmer/Analyst.** Assigned to Delta Technology (TransQuest) developing distributed applications on HP9000/800 series under HP-UX v10.x using C/C++ for the Crew Reservation Management System (CRMS).

- Technologies: C/C++, HP-UX, Sockets, TCPIP, RCS, csh, ksh.

08/91 - 03/95, **Lockheed Martin Aeronautical Systems, Engineer II.** Designed avionics subsystems for C-130J Hercules air transport. Supported network of approximately 100 Macintosh desktop units. Maintained technical library for research and development of software methodologies and applications.

- Technologies: Unix (Solaris), VAX, C, csh/ksh, Interleaf, MATLAB, MathCAD, CAD/CAM.