

## **J. Lee Harrington**

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### **TECHNICAL SKILLS:**

**Web Technologies:** HTML, Ajax, XML, JavaScript, Cold Fusion, Active Server Pages (ASP), Flash, Selenium

**Oracle Technologies:** Oracle versions 7.3 – 11, , PL/SQL, Oracle Lite

**Java:** Java 1.2-5, Struts, Hibernate, Tiles, Log4J, servlets, JSP, JBoss, Eclipse, Websphere, Spring

**Additional Databases:** Microsoft Sql Server 6.5-2008 (Transact Sql), Access 2.0 - 2005, Foxpro, dBase

**Languages/Development PKGs:** Visual Basic, Com+

**Operating Systems:** Windows 7,Vista,XP, NT 2000//98/95/3.1, HP Unix 10.2, Linux, DOS

**Other Tools:** ER Diagramming, ErWin, Documentum, ODBC, Toad, MS Excel, CVS,PVCS Version Control, PL/Vision, PL/Generator, ER/Studio, FTP.

**Data Design:** Warehouse design (star schema) and transactional (normalized)

### **PROFESSIONAL EXPERIENCE:**

**November 2008 – July 2010**  
**Senior Software Engineer, Next Wave Inc.**

Java and database developer for Next Wave's web based ERP systems. Developed java middleware, database interfaces, data schemas, stored procedures, jsp web pages and integrated data with Adobe Flash.

Technologies used: java, oracle, JBOSS, Eclipse, Git, Spring, test driven development

#### **Projects:**

Performance Management System. Created the entire data schema, stored procedures, hibernate mapping layer, and data services layer. Also created web based performance tracking reports in java/jboss.

Email/Newsletter system. Was on the team to create a email newsletter system using RAD development techniques. We used the Git version control system, test driven data development with junit and Spring. Interface testing automation using Selenium.

Production support team member for ERP system. Daily worked on tickets in support of the production ERP system for Next Wave's client, Votre Vu. Tickets ranged from complex commission system bugs to simple web page changes.

Created linux virtual appliance for java development so we could have a standard build to get new team members productive quickly.

### **July 2002 – November 2008**

#### **Technical Architect, AT&T/IBM**

Lead developer, team lead on numerous web based applications and business intelligence systems. Involved in designing and programming database, middleware, and web based applications. Was one of the architects who designed our data mart, business intelligence reporting system. Involved in writing technical requirements and programming standards. Was our organization's SME for the Developer role and developed and conducted training for the Developer role for our CMM Level 3 process.

This was the same job with the last year outsourced to IBM.

Technologies used: oracle, sql server, java, struts, hibernate, Cold Fusion, HTML, javascript, Ajax, SAS, WSAD, Oracle Lite, Business Objects

#### **Projects:**

Netrics Data Mart: developed a data mart and reporting system using Oracle and SAS tools.

First Mile: Tech lead responsible for the java and database development of a web reporting and transaction system. Project on time and budget.

Uverse Staffing: Tech lead responsible for the java and database development of a web reporting and transaction system. Project on time and budget.

Webadd rearchitecture: Was the lead architect and lead developer to restructure how a company wide online forms system. Before the redesign, it took 6 months and \$180,000 to add a single new form. I redesigned using xml/xsl and now new forms can be added in a week. This success has moved this project into a key enterprise role in AT&T.

Netrics Dictionary: Lead developer, team lead on this metric definition repository. Designed to use XML to allow new definition form types to be added without the need for coding. Used Struts and Hibernate to develop the app in Java with Oracle/XML as the back end.

Techscore: lead developer on the web side of this technician metric reporting system using Cold Fusion. Introduced and trained the team on warehouse data design using star schema. Designed reusable reporting components that save a lot of development time. Led the transition from Sql Server to Oracle as the database back end

### **October 2001 – July 2002**

#### **Independent Contractor**

### **Jackson, Michigan Transit Authority**

Created .Net web webservices to web-enable Jackson's existing bus routing system. Used Visual Studio.Net (VB.Net, Asp.Net) to interface between HTML pages and the server based bus routing system.

### **American Society for Dermatological Surgery**

Designed and wrote an Access 2002 database to handle the membership/invoicing and posting needs of this nonprofit organization. It is basically a cash based accounting system that creates reports for their accountant.

### **Allendale, Inc.**

Performed a variety of tasks for this brokerage. Made modifications to their Access 2002/Sql Server 2000 database system.

Wrote a java based system for publishing financial data to the web, to FarmDayta and DTN news services. Did all the analysis, design and coding.

Used Java 1.4 servlets. Used java FTP libs to move data to the different services

### **February 2000 – September 2001 Senior Developer/Technical Lead**

### **divine, Inc.**

Part of a team developing Internet document management portals. Member of the architect team designing database and web strategies. Created the development standards for database development, Visual Basic coding, and Active Server Page scripting. Lead database designer overseeing database models (logical and physical) for multiple projects. Technical lead in project to purchase and integrate a billing system. Developed middleware visual basic com+ applications which formed the core of the LightsEdge product. Programmed stored procedures in Sql Server 7.0 Ported application to Oracle 8.1.7 with rewrite of stored procedures in PL/SQL.

Developed server side java servlets to integrate divine's chat software (MindAlign) with divine's knowledge management product (Athena). Used XML (jdom), Jbuilder, JDBC thin for Oracle and JDBC-ODBC bridge for Sql Server.

### **June 1999 – January 2000 TECHNICAL LEAD, Chicago eWorks**

### **Sargent & Lundy LLC**

Responsible for developing web based data mart for Sargent & Lundy LLC. The data mart was implemented using Oracle database and Oracle Web Application Server. Was part of the design team that designed the system using a star schema approach. Used ErWin for the data model. Was part of the team to implement the physical model. Designed and programmed the PL/SQL packages for loading the data mart. Created the web reports using the PL/SQL cartridge of Oracle's Web application server. Conducted user training and rollout. Wrote design specifications. Oracle ran on HP Unix server.

**SEPTEMBER 1998 – May 1999**

**RAYTHEON ENGINEERS AND  
CONSTRUCTORS**

**TECHNICAL LEAD, Maxim Group**

Responsible for developing data mart for Raytheon's client, Kraft Foods. The data mart was part of Kraft Food's implementation of the IEEE S88 standard for Manufacturing Execution of Batch Processing Systems. Took logical model and designed physical model (used Oracle Designer for modeling) and PL/SQL packages. Served as the DBA for the Oracle development box (Oracle 8.05, Windows NT). Managed the work of three PL/SQL developers. Was responsible for coordinating the data mart with 4 manufacturing plant teams which incorporated our MES/Repository in their projects. Was responsible for helping the 4 plant teams to understand the data design of the S88 specification and how to move their legacy data into the new repository. Was responsible for deploying onto HP Unix 10.2, Oracle 8.05. Filled in as technical lead for one of the plants projects, 17 people, during a short term absence of that project's technical lead. Created data maintenance screens in VB 6.0. Oracle ran on Windows NT and on HP Unix.

**JUNE 1998 – AUGUST 1998**

**CNA INSURANCE**

**INTRANET DEVELOPMENT AND DBA SUPPORT, Saraswati Systems Corp.**

Developed web based data entry screens and reports and served as secondary support DBA. Microsoft Visual InterDev and Active Server Pages technology was used with VB Script for server side applets and Java Script for client side validation. The database was Oracle 8 hosted on HP Unix version 10.2. My responsibilities included design, development and testing of the web code and DBA support of production databases.

**NOVEMBER 1997 – JUNE 1998**

**MOTOROLA**

**SENIOR CONSULTANT, Saraswati Systems Corp.**

Manufacturing Inventory Control System. Lead developer of a database application tracking data from orders through delivery of multi-million dollar radio control systems. Responsible for the logical and physical data model. The project was developed with Oracle Designer/2000, Oracle Developer/2000, PL/SQL and Oracle 8 on HP Unix.

**JANUARY 1997 – NOVEMBER 1997**

**MCDONALD'S CORP.**

**SENIOR CONSULTANT, Quest Consulting**

Data warehouse for International Sales, McDonalds. Lead developer of a data warehouse/mart for International Accounting. System replaced a mainframe sales accounting system. The project was developed with Developer/2000 and Oracle 7.3. Also responsible for training McDonalds personnel in Developer/2000. Oracle on Novell and on Unix.

**SEPTEMBER 1994 – JANUARY 1997**

**SENIOR CONSULTANT, Interim Technology**

Project manager and senior developer for the Interim Technology's own billing system. A FoxPro application which handles the entire process of collecting the time of 1400 consultants, producing \$200 million in invoices annually, integration with commercial payroll and accounting

systems, and producing management reports of all kinds. Performed all of the technical interviews relating to FoxPro. Developed pilot intranet time entry project. Project used HTML, CGI, Web Server, and database connectivity. Developed Visual basic 4 program for integration with EDI payment systems. Developed VB4 program for Management compensation system.

This system gathers data from a variety of sources including Btrieve based Macola accounting system, Ceridian Payroll system, and FoxPro based time and billing system. The system must also handle dynamic screen generation as the compensation plans differ greatly. Took in house classes in SQL server, object oriented design, and Access. Took self-paced education in HTML, JavaScript, Visual FoxPro, Object Oriented Programming, and Cold Fusion (a web database developed tool.)

Did development using OS/2 as my operating system taking advantage of it's superior multi-tasking and low resource requirements.

### **For Principal Health Care**

Designed and developed system in Foxpro to manage an extensive database of doctors and clients.

### **AUGUST 1993 – SEPTEMBER 1994                      ContrAcct Systems Corp. SENIOR PROGRAMMER, ContrAcct Systems Corp.**

ConrtAcct Systems Corporation has developed and marketed a Job Cost accounting system developed in Basic and aimed at the construction industry. It was my responsibility to re-develop the entire accounting system (GL, AP, AR, JC, and IV) in FoxPro with DOS, Windows and UNIX versions. It was also my responsibility to train CSC's Basic programming staff in FoxPro.

Created a Service Order System, a tracking system for a large phone and alarm installation company. It is a mission critical application developed in FoxPro 2.6 for DOS. All of the business maintenance and installation calls are managed by the system and billing information is fed into CSC's UNIX accounting application.

### **MAY 1993 – AUGUST 1993                                      American Association of Individual Investors**

Responsible for the design and development of a commercial Stock Portfolio Management System for America Association of Individual Investor's. The program was developed in FoxPro 2.5 for DOS and a Windows and a Mac version are in the works. The Stock Investor has been purchased by over 3,000 members of AAI and was reviewed in Business Week.

### **AUGUST 1990 – AUGUST 1993 MANAGER OF SYSTEMS DEVELOPMENT, Kupferberg, Goldberg, & Neimark**

Responsible for the development of custom software for KGN's clients. Managed a staff of three. Was involved in all phased of software development, initial client meetings, writing of proposals, systems analysis, programming, installing, training and support. Also taught training courses in FoxPro 2.0

**Projects:**

Downsized accounting software for Continental Grain. Continental Grain Company is a client that I brought into KGN. The project was a 14month downsizing of an accounting program from UNIX/Informix to Banyan Vines/Clipper. I was entirely responsible for the Clipper programming and design. The clipper program interfaced with Platinum General Ledger, a Btrieve based accounting system.

Restaurant Management System for Father & Son Pizza. Did the initial design work and was involved with some of the programming and management of other programmers. It is a vertical market application written in FoxPro 2.0.

Electronic Claims Transfer for Blue Cross Blue Shield. Designed, programmed and installed system to facilitate the electronic transfer of insurance claims from client IBM system 36' to Blue Cross's claims system. The project was written in FoxPro 2.0.

Multi Accounts Payable. Vertical market application which allows distributions of payables from multiple companies into one general ledger. It currently works as a replacement for AccPac's AP module and will be modified to work with Platinum and Great Plains. I worked on initial design and managed the programming as well as working on some of the system myself. The application was written in FoxPro 2.5.

Order Entry System for Circuit Board Manufacturer. Designed, programmed and installed custom order entry system written in Clipper 5.01. The system was integrated into the Platinum accounting system using RaSQL a Btrieve library. The program is multi-user and runs on Novell Networks.

**As Senior Programmer**

Responsible for the development of custom software for KGN's clients. Was involved in all phases of software development, initial client meetings, writing of proposals, system analysis, programming, installation, training and support. Also led training courses in FoxPro 1.02.

**Projects:**

Time & Billing System for Engineering Firm. Designed, programmed, installed, and wrote manual for a time and billing system. The system is used by remote work force and data is transferred electronically and integrated with the Timeslips time and billing software. The program was developed in Clipper 5.01. The program is currently installed in three of KGN's clients.

CASE Management System for Law Firms. Designed, programmed, installed, and wrote manual for CASE Management System. The system handles all data concerning law suites, names, dates, briefs, etc. It is a mission critical program for law firms which use it. The program was written in FoxPro 1.02 and runs on Novell networks.

Tax Tracking systems for internal KGN Use. Designed, programmed, installed systems to track the progress of tax forms as they are processed by KGN. Written in FoxPro 1.02 and runs on Novell networks.

Sales Management System for insurance companies. Designed, programmed, and installed systems to track the sales cycle for two different insurance agencies. Both of these projects were designed for each client's specific needs and form the basis for the sales activities for the two companies. Written in FoxPro 1.02 they both run on Novell networks.

**DECEMBER 1989 – JULY 1990**  
**DATA PROCESSING CONSULTANT, Indecon Inc.**

**Projects:**

Expert system for writing policies for Citicorp. Designed and programmed expert system for the creation of expense policies. The program will be given away to Citicorp's clients. Program was written in FoxPro 1.02.

Voucher Program for Ameritech. Designed, programmed and installed program to automate the payment of vouchers. Program was written in FoxPro 1.02.

Reports and modifications to Promotional Tracking System for Quaker Oats. Made code modifications and wrote reports for Clipper Summer '87 program which was a mission critical application for Quaker Oat's Promotional department. System ran on a Novell Network.

**SEPTEMBER 1988 – DECEMBER 1989**  
**SALES REPRESENTATIVE, The Information Management Group**

Was responsible for the marketing and sales of IMG's custom programming services to Fortune 500 companies in Chicago. Created leads, made cold calls both in person and on the phone. Set up sales appointments. IMG was a four person firm with three clients. Was responsible for bringing in four major clients including the American Medical Association and Crumm and Forrester.

**EDUCATION**

1983 – 1988

University of Illinois Urbana Champaign  
Majored in Speech Communications  
Minored in Math and Computer Science