

Kenneth D. Huffman

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CAREER GOALS: To continue in a lead engineer role on challenging object-oriented web client and/or Java server software development projects.

EMPLOYMENT: **Lead Application Analyst**
Big Lots
I.T. Development. October 2011 to Present.

Business analysis, design, and modifications to retail system. Software development on thin and thick clients and multi-tier servers.

- **MARS:** Multi-tier, multi-database retail system. Database synchronization between Central Office (Oracle), 1500 Stores (MySQL), and 8000 Registers (Derby). Redundancy with online and offline modes. Swing-based, state machine touch screen client with scanner, printer, and pin pad. Integration with several other Central Office system, including SAP Retail and Data Warehouse archiving via Websphere MQ. Helped optimize price change handling and other modifications to all three tiers. *Project Developer.*
- **POSLog:** Integration process between MARS Oracle database and Data Warehouse. XML MQ messages to flat file conversion. Written in Java and Groovy with Spring Integration. *Project Developer/Owner.*

System Architect/Technical Leader

Kentrox, Inc. (formerly **Applied Innovation Inc.**)

Network Management Systems Department. June 1994 to October 2011.

Technical Lead GUI and Java architect, designer and programmer across the entire project life-cycle of multiple cross-platform systems. Received highest company award on three different occasions for excellence on projects.

- **Optima:** Web-Client/Multi-Tier Server device and point measurement SQL database with historical, status, and GIS views of IP-based SNMP network devices. Central Oracle SQL server database on Linux with multi-server JBoss and Tomcat daemons containing Spring Framework based beans. ActiveMQ message bus communication between distributed server processes. JavaScript browser client with dynamic AJAX requests driving Ext JS, Raphael and FusionCharts graphical views. *Project Leader/Designer/Developer.*
- **AIdirector:** Rich-Client/Server device inventory SQL database with extensible platform for launching internally written and dynamically deployed Java and 3rd party windows applications against IP and serially-connected network devices. Flexible PAM user authentication. PostgreSQL server database on Linux and Java Swing thick client with RMI communication. Integration with OpenNMS for event rules engine and storage. *Lead Designer/Developer.*

- **AppliedView:** GUI and server development for product using portable UNIX/NT C++ GUI, Java Swing, and RogueWave Tools.h++. Server applications using multiple SNMP agents and TCP/IP optionally running in conjunction with HP OpenView or Netcool OMNibus. Lead architect and engineer for GUI. *Lead Designer/Developer.*
- **NEweb:** Java Web Start client development with SQL database using Swing and JDBC. Client was multi-threaded, extensible, security application which accessed and updated a hardware inventory and telnet (including TL1) commands database. Developed classes for multi-threaded database access, dynamic menu and hierarchical view population. *Lead Designer/Developer.*
- **Various embedded Linux:** Scripting platform for dynamic deployment of network diagnostic and monitoring applications. Unified management interface (web, command line, SNMP) for system. Embedded web server with CGI. Dynamic multi-process, multi-threaded architecture written in C/C++ with ACE framework on Linux platform. *Lead GUI Designer/Developer.*

Systems Engineer

Chemical Abstracts Service

Systems Development Department. October 1985 to June 1994.

Traditional and Object-Oriented analysis, design and development on several projects. Several cash awards for timeliness and quality work beyond what was expected.

- **SciFinder:** Object-oriented software development in C++ of portable cross-platform (PC/Mac/Sun) GUI program for searching and displaying chemical compounds.
- **Curie, xgab, room (many others):** Various other user applications using a variety of C++ GUI frameworks.
- Authored Pro*C and SQL-based Oracle programs including database design. Development of Oracle and in-house database software in C and Assembler on several UNIX, Mainframe, and IBM PC environments.
- Long term, individualized training advisor for new employees and in-house expert and trainer for C++ and database technologies. Occasional SQL Database administrator.

LANGUAGES and LIBRARIES:

Java SE SDK tools, Tomcat, JBoss, JDBC, XML-RPC, JUnit, DbUnit, JNI, Apache Commons, Flexjson, SNMP4J, Swing GUI and others

JMS Active MQ, Websphere MQ

JavaScript AJAX, JSON, Sencha Ext JS, Raphael, FusionCharts

Spring Framework Core, Beans, Web MVC

HTML XHTML, CSS, CGI

C++/C/Objective-C STL, ACE Framework, Xerces-C, XVT Power++, RogueWave

Scripting Python, bash/sh/ksh, Groovy

XML DTD, XSD, XSLT

SQL Oracle, MySQL, PostgreSQL, Hibernate, and Derby

DEVELOPMENT ENVIRONMENTS and TOOLS:

Linux with RedHat Enterprise/SuSE/Ubuntu.

OS X on MacBook Pro.

Windows NT/XP/Vista/7.

UNIX on Sun Sparc (Solaris) and Hewlett Packard PA-RISC (HP-UX), Unixware.

Eclipse and Windows development IDEs, Topcased.

Command line Linux/UNIX/GNU development tools.

Build Ant, Maven, Make, Doxygen, Hudson, Bamboo, JIRA.

Source Code Control Perforce, SVN, GIT, RCS, SCCS.

EDUCATION:

M.S. in Computer and Information Science

The Ohio State University, Graduate School, 1985.

B.S. in Computer and Information Science

The Ohio State University, College of Engineering, summa cum laude, June 1984.

Honors student in Computer Science Department. Phi Kappa Phi.

INTERESTS:

Road cyclist.

Former Board Member & Director for the Columbus Symphony's Picnic with the Pops.

Award winner in the *International Obfuscated C Code Contest*.