

Kenneth D. Huffman

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

EMPLOYMENT: **System Architect** with **Kentrox, Inc.**
Network Management Systems Department
June 1994 to Present.

Object-oriented analysis, design, and development across the entire project life-cycle for multiple releases of multiple products. Contributor to technical design and direction on most GUI products in the engineering department. Technical Java, C++, web, database, and Object-Oriented lead and expert responsibilities with fellow project staff on cross-platform systems. Lead GUI designer and programmer on projects covering both object-oriented foundation and application layers. Received highest company award on three different occasions for excellence on projects.

- ***Optima (Network Management System)***: Web-Client/Multi-Tier Server device and point measurement SQL database with historical, current status, and GIS views of IP-based SNMP network devices and proxied dumb 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. Ext JS JavaScript browser client with Java Plugin Framework. Staff Engineer and Lead Engineer.
- ***Aldirector (Application Deployment Platform)***: 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. System Architect and Lead Engineer.
- ***Aremote-RTP (Cell Phone Test Hardware)***: Linux-based cellular test hardware for testing CDMA networks. Embedded web server with dynamic CGI pages running dynamically deployable test suites. Staff Engineer.
- ***Alextend (Scripting Card)***: Network element for enabling sand-boxed customer-authored scripts for protocol polling and conversion (SNMP, TL1, etc). Unified management interface (web, command line, SNMP) for system. Dynamic multi-process, multi-threaded architecture written in C/C++ with ACE framework on embedded Linux platform. System Architect.

- ***NEweb (Network Element Access)***: Java Web Start client development with SQL Server 7.0 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. System Architect and Lead Engineer.
- ***AIweb (Embedded Device Configuration Applet)***: Java Swing client for configuring heterogeneous network devices. Device independence achieved through extensive use of an XML/DTD engine for configuration, schema, and presentation. Technical design and implementation consultant, occasional programmer.
- ***Data Services Access Multiplexer (Central Office Modem Access)***: Web development for PC-based Unixware system using C++, ksh, CGI forms and SNMP. Project used multi-thread safe Standard Template Library (STL). Java Swing applet with IPC functionality to configure device. Lead Engineer for web/SNMP portion.
- ***AppliedView (Element Management System)***: GUI and server development for product using XVT Power++ (Portable UNIX/NT C++ GUI), Java Swing, and RogueWave Tools.h++. Developed portable, object-oriented interface to ISAM database package (later converted to ODBC layer for PostgreSQL/Oracle). Server applications using multiple SNMP agents and TCP/IP optionally running in conjunction with HP OpenView or Netcool OMNibus. Lead Engineer for GUI.

Systems Engineer with 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 (Online Chemical Search)***: 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 (GUI Tools)***: various user applications using Xview (Open Look), Galaxy (Portable GUI), and termcap (character-based) interfaces.
- 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++, JCL and database technologies. Occasional SQL Database administrator.

ENVIRONMENTS: Intel PCs running Linux (RedHat Enterprise/SuSE/Ubuntu).
Intel PCs running Windows NT/XP/Vista.
MacBook Pro running OS X.
Sun Sparc running Solaris (UNIX).
Hewlett Packard PA-RISC running HP-UX (UNIX).
Familiar with command line Linux/UNIX/GNU tools (ant, make, gcc, autoconf, etc)
Eclipse and Windows development IDEs.

LANGUAGES: Java (J2SE 1.1 through 6.0 and J2ME/MIDP), HTML/XHTML/CSS, XML/DTD, JavaScript, SQL, C++/C, ksh/bash/sh, Python, and others.

LIBRARIES: Swing, Ext JS, Spring Frameworks, Tomcat, Apache Commons (many), SNMP4J, JDBC, XML-RPC, JUnit, JSON, Java Plugin Framework, Doxygen, RogueWave Tools, and others.

EDUCATION: M.S. in Computer and Information Science
The Ohio State University, Graduate School,
Graduated: December 1985. GPA=3.7/4.0

B.S. in Computer and Information Science
The Ohio State University, College of Engineering,
Graduated: summa cum laude, June 1984. GPA=3.7/4.0
Honors student in Computer Science Department. Phi Kappa Phi.

INTERESTS: Bicyclist, Former Board Member & Director for the Picnic with the Pops.
Award winner in the *1996 International Obfuscated C Code Contest*.