

Ken Huffman

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TL;DR

Experienced Architect and Full Stack Developer on various internal, hosted, and serverless AWS cloud based software products. Demonstrated interest and proclivity for learning new things.

LANGUAGES

Java, SQL, TypeScript, JavaScript/NodeJS, Python, shell (bash/sh), C++, Objective-C

ENVIRONMENTS

OS: Linux (RedHat Enterprise, CentOS, Ubuntu), Windows, OS X, UNIX (Solaris, HP-UX)

Deploy: JBoss, Tomcat, Jetty, RPM, command line

Development: Eclipse, VSCode IDEs, Java SDK tools, Maven, Ant, Shade, Make, Wiki

Continuous Integration: Jenkins/Hudson, Artifactory, JIRA, JavaDoc, Git, Perforce, SVN.

LIBRARIES

Java: Spring Framework (core, beans, transactions, web MVC), JDBC, JPA, JSON, Apache commons (various), Apache HTTP, JAXB, Log4J2, SNMP4J, SLF4J, JMS, JUnit, DbUnit, Swing GUI and others.

AWS: Serverless, Lambda, CloudFormation, CloudWatch, API Gateway, Cognito IDP, RDS Data, WebSocket, IoT, Kinesis, S3, SES, SNS, SQS, SecretsManager.

JavaScript/Typescript: AJAX, JSON, Sencha Ext JS, ReactJS, Material UI, Raphael, FusionCharts.

WEB: HTML, XHTML, DOM, CSS, DTD, XSD, XSLT, CGI, XML-RPC

SQL: Oracle, PostgreSQL, AWS Data API, MySQL, Derby, JDBC, JTA, JPA, EclipseLink.

EMPLOYMENT HISTORY

System Architect at **Westell** (formerly **Kentrox** and **Applied Innovation Inc.**)

Intelligent Site Management Department. June 1994 to October 2011 and July 2015 to Present.

Technical Lead 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.

- **Vantage:** AWS Lambda serverless framework for custom UX for events, measurements, analytics, and notifications. Cloud-based PostgreSQL RDS fed from MQTT IoT devices over cellular network and also synchronized with Optima using many AWS cloud service APIs. AWS backend lambdas written in Java, NodeJS and Python. Browser client code written in TypeScript using React JS with Material UI with WebSocket notifications from lambdas. Deployed using npm, NodeJS, and Serverless frameworks. *Senior Architect/Developer.*

- **Optima:** Multi-Tier Application Server with vents and measurements in a SQL database with historical, status, and GIS views of IP-based SNMP and serial network devices. Central PostgreSQL (formerly Oracle) SQL server database on Linux with multi-server Tomcat daemons using Spring Framework libraries. ActiveMQ message bus communication between distributed server processes. Browser client with dynamic AJAX requests driving Ext JS, Raphael and FusionCharts graphical views. *Project Leader/Architect/Developer.*
- **AppliedView:** GUI and server development for product using portable UNIX C++ GUI, Java Swing, and RogueWave Tools.h++. Server applications using multiple SNMP agents and TCP/IP optionally running in conjunction with HP OpenView, OpenNMS, or Netcool OMNIbus. *Project Leader/Architect/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 Architect/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.*

Technical Architect at Big Lots

I.T. Development Department. October 2011 to July 2015.

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

- **eCommerce:** Integration of Digital Access Management (Canto Cumulus) software and Dynamic Image Server with eCommerce website and CDN. *Project Architect Team Member.*
- **Vertex:** Oversaw the integration of the Vertex 6 O Series tax software with the POS. *Project Technical Architect/Developer.*
- **Empower:** Architected the ETL data sources and flows from sales numbers into staffing system. Oversaw SAP development. *Project Technical Architect.*
- **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.*

Systems Engineer at 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.

EDUCATION

M.S. in Computer and Information Science
The Ohio State University, Graduate School.

B.S. in Computer and Information Science
The Ohio State University, College of Engineering, summa cum laude.
Honors student in Computer Science Department. Phi Kappa Phi.

INTERESTS

Cycling, Pelotonia fundraiser. Founder and captain of former company's cycling team.
Former volunteer Board Member & Director for the Columbus Symphony's Picnic with the Pops.
Euro boardgamer.
Award winner in the *International Obfuscated C Code Contest*.