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DevOps-oriented system design, implementation and maintenance with attention to Enterprise Java

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Extensive experience in design, development and support of complex system functionality in distributed network environments. Creating high-performance, high-reliability fail-soft systems that are both easy to use and to maintain, with the additional ability to integrate with special needs such as custom hardware and/or networking. Experienced in compiler and scripting language technologies.

Summary of Experience

- Extensive JEE technologies: JSF, Struts, and JSP/JSTL
- OS-Level software architecture design, various platforms.
- Extensive system administration experience, various platforms
- 20+ years experience with Java, C++ and other Object-oriented programming (OOP) languages
- 15 years with XML technologies, including SAX, JDOM, STaX, Apache Digester, Apache Avalon, Cocoon, XSLT, XSL-FO, and Apache Axis.
- Extensive experience design and programming for networks including Unix sockets and IBM VTAM
- Extensive experience design and programming with message and interrupt-based systems
- Extensive Microsoft Windows and Linux design and programming experience
- 7 years OS/MVS (OS/390, zOS) Systems Programming experience (IBM mainframe)

OS Platforms

Microsoft Windows, Linux/Unix/Solaris, OS/390 (zOS)

Web/Application Servers

Apache, Tomcat, BEA WebLogic, IBM WebSphere, Jboss/WildFly

DBMS

IBM DB2 v9.7 (as DBA) and 10.5 Oracle 10g, SQL Server, PostgreSQL, MySQL. Access via JDBC or ORM (Hibernate, JDO, EJB/JPA). Single-instance and clustered (Galera). NoSQL systems such as Node4J.

DevOps

Cloud architectures – Amazon AWS (including Elastic Beanstalk) and OpenStack (as administrator). Provisioning systems, including Red Hat KickStart via PXE for physical and VM machines, Cobbler, Ansible, Puppet and Vagrant.

Systems Selection, Configuration, Tuning and Support

Microsoft Windows NT workstation and server. Linux workstation and server. OS/MVS performance measurement and tuning.

Other

- Graphics, image manipulation and typesetting

- J2EE presentation: JavaServer Faces (JSF), Struts, Cocoon, Velocity
- J2EE ORM: JPA/EJB, JDO and Hibernate (Original and JPA).
- Java general: Spring Framework. Extensive experience with Jakarta Commons.
- Mobile apps: Android. C#.Net for Windows Mobile. J2ME. PalmOS C programming.
- ETL – source code contributor to Pentaho Kettle and Spoon ETL tools (enhancements to Excel importing).

Support tools and build systems (install, maintain, use)

- Maven, Ant
- Nexus
- Jenkins.
- Trac, Jira
- Junit, DBUnit, JMockit
- Eclipse, IntelliJ and NetBeans IDEs.

Mentoring and Support

- Forum moderator for Tomcat and JSF forums at <http://www.coderanch.com>
- Contributor to LinkedIn J2EE group discussions
- Contributor to StackOverflow
- Contributor to LinuxQuestions.org

Programming Languages

Language Experience

C++/MFC – 17 years	Java – 20 years	Visual Basic – 10 years
COBOL – 7 years	Smalltalk – 1 year	FORTRAN – 5 years
Assembler (S/390 and PC) – 9 years	Ada/Pascal/Modula – 4 years	LISP/Scheme – 1 year
REXX – 2 years	Forth 2 years	Perl – 5 years
Python – 2 years		

Employment History

Jul 2008-present: Independent Software Consultant

Providing design, coding and implementation services primarily on the Java/JEE platform.

Miscellaneous short-term projects for various Enterprise/Cloud provisioning projects, database administration and tuning, SNMP agents.

February 2010: **Wine Management Systems**. WMS provides a SAAS web-based application for the winemaking industry with components for the winemaking process and for Wine Clubs. The webapp is based on J2EE, and has web services interfaces to QuickBooks. Accomplishments: Recommended hosting service providers to replace the old iSeries host, setup virtual datacenter with development, test and DB2 servers, added AJAX (dojo) support to applications.

October 2009: **Barbados Land Registry**. This is a JSF-based website that provides access to the Land Registry records of the Caribbean island nation of Barbados, allowing the maintenance of Land Registry related records in a DB2 database and producing PDF hardcopy files using XSLT. The production host system is WebSphere on the iSeries.

Feb 2009: **JoysList website**. JoysList is an online buy/sell board geared towards both local and international shopping. The original system was implemented using undocumented proprietary code, which was upgraded to use industry-standard components where possible, including JSF, Facelets, JPA/ Hibernate, Spring Framework, Apache Lucene search and the Velocity template engine. Performance improvements were made, including a 60/1 reduction

in application startup time and the extensive use of AJAX for a more responsive user display.

Aug 2008-Jan 2009: **Safinia MedicalMentor System**. The MedicalMentor system consists of a set of Java applets communicating with a CORBA server. The original system only functioned with Netscape 4.7, but was upgraded to work with any modern-day web browser such as IE and Firefox. The system itself is a series of “mentors” designed to capture data for medical documentation and to assist a doctor in the course of diagnosis and treatment of a number of common medical conditions, including cardiac, neurological, and gastrointestinal ailments, using the most up-to-date medical knowledge and diagnostic procedures.

Feb 2008-Aug 2008: VP Engineering, The Gaming Krib

Provide general feedback to the corporate design process. Oversee the selection and design of custom hardware and hardware-related services including mobile applications and interfaces.

Dec 2006-Jan 2008: Software Engineer, Real Data Center/Visre/Real Mortgage Services

Various advanced solutions as needed: C-based high-performance image processing, Django (Python) ORM web presentation design, infrastructure design: Linux GFS terabyte filesystems, Solaris ZFS and Mobile Computing solution design. .Net-based Windows Mobile 5 application for cell-phone using camera, Internet client/server and GPS capabilities.

2003-2006: Senior Software Engineer, EverBank

Configured and brought online the first production Linux Servers at EverBank.

Designed and implemented custom Tomcat security Realm used for EverBank authentication and authorization services. Designed NJE-based JES2 routing system for automated routing of batch data to/from Fidelity National and Metavante mainframes. Acted as member of the team that maintained Everbank’s Financial ETL system.

OFAC: ensured that EverBank meets U.S. Government requirements on accounts, mortgagees, employees, vendors and contractors. These entities are checked daily against the US Treasury Office of Financial Assets Control (OFAC). Interfaces with Fidelity MSP, Metavante and Oracle Financials.

1994-2001: Software Engineer, ALLTEL Corp.

Designed web-based version of the Busch Analytics product. Selected, installed, maintained and supported hardware and OS's for the Portfolio Valuation Services department. Provided user technical support. Tuned systems and administered security as needed.

1991-1994: Software Engineer, Digital Design, Inc.

Designed and implemented Windows printer drivers for 656/PC and P51 multifunction systems. Also developed and implemented Windows Virtual Device Driver (VxD), and Optical Scanner systems software.

1986-2004: President/Principal Associate MTS Associates, Inc.

Incorporated MTS Associates, Inc. as a Sub-chapter S Florida Corporation. Raised capital and contracted with AT&T Information Systems, Inc. and Lattice, Inc. to port the C++ programming language to the Commodore Amiga Personal Computer system and act as value-added remarketer. MTS C++ for the Amiga was distributed world-wide by Lattice, Inc., a subsidiary of The SAS Institute.

Other Items of interest:

Technical reviewer for the Pearson Addison-Wesley Computer Science series of books.

EJBWizard

Open-source (<http://www.mousetech.com/EJBWizard.html>) Java application originally intended to ease the creation

of Enterprise Java Beans for use with the JonAS EJB Server (<http://www.objectweb.org/jonas>). It was adapted to produce EJBs for WebLogic Server, and more recently, to support virtually any popular ORM system.

Publications

Authored *Struts: a Solid Web-App Framework*, cover article for April 2002 Java Pro Magazine.
http://www.ftponline.com/javapro/2002_04/magazine/features/tholloway/

Authored *The Object-Oriented Amiga Exec* in January 1991, BYTE Magazine. Online at http://www.cunningham-lee.com/misc/amiga_exec.html

Authored the regular column "Life in the Multitasking World" for AMI Project magazine. This series was an introduction to multithreaded programming.

Academic

Taught the C programming language at Florida State College at Jacksonville (formerly FCCJ).