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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 J2EE technologies: Struts, JSF 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
- 6 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 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

## DBMS

Oracle 10g, SQL Server, PostgreSQL, MySQL. Access via JDBC or ORM (Hibernate, JDO, EJB/JPA).

## 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: JDO, EJB and Hibernate.

Java general: Spring Framework. Extensive experience with Jakarta Commons.

Mobile apps: C#.Net for WM5 and J2ME. PalmOS C programming.

## Microsoft Windows

OS Internals design and programming: device drivers, OLE2/COM/DCOM ActiveX and ATL.

## Programming Languages

Language Experience

C++/MFC – 17 years	Java – 12 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 – 6 months		

## Employment History

### Dec 2006-present: Software Engineer, Real Data Center/Visre/Real Mortgage Services

Various advanced solutions on demand: 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. Most recently: Mortgage systems interfacing and design for JSF/Facelets, JPA, and open-source DTS.

### 2003-2006: Senior Software Engineer, EverBank

High-performance/high-reliability design and support for the Financial and Legal software support group at 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.

Designed Solaris packaging system for build and deployment of complex webapps at EverBank.

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. Installed, maintained and supported hardware and OS's for the Portfolio Valuation Services department. Selected and installed hardware improvements to user machines and servers, recommended systems for customers and provided customer technical assistance. Designed, implemented, maintained and supported network, client/server, Internet and mainframe applications as well as mainframe-compatible tape device driver software. 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 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:****GCC/370**

Presently part of a group porting the GNU C Compiler (gcc) to the IBM OS/MVS and VM/370 platforms.

**EJBWizard**

The EJBWizard is an 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/](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](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 Community College at Jacksonville (FCCJ).