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Education:

- * M.S. Computer Science. Graduated 1989. U. of KY. GPA 3.9/4.0
 - * B.S. Biology. Graduated 1982. U. of KY.
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Experience Summary:

- * UNIX: Solaris, HP-UX, AIX, Linux
 - * Windows
 - * Teaching – computer science courses
 - * Software development: Object Oriented design and programming
 - ** Client/Server – middleware and services; Threads, Sockets
 - ** LDAP – usage of JNDI and Netscape JDK
 - ** XML with DTD (DOM parsing) in software development
 - ** MySQL, Tomcat, Apache Web Server, JSP
 - ** usage of FTP/SFTP Java API in software development
 - ** RPC - proprietary implementations as well as usage of DCE, Netwise, Sun ONC
 - ** Makefiles, usage of GNU projects – gcc, slapd, ssl, etc.
 - * *Java(7 years), C++(11 years), C(17 years), C#
 - * *UNIX shell scripting
 - * * PHP, SQL, JavaScript, Velocity Servlets, Web Services, Axis
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Teaching Positions:

- * Teaching Assistant - Dept. of Computer Science, U. of KY,
Jan '88 - July '89.

 - * Instructor - Computer Information Systems Dept., Lexington Community
College, Jan. '90 - May '90.
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Software Projects (chronological):

* Alcatel-Lucent (formerly Xylan Corp): Java (v1.3-1.6), C++, C

** 1996 - Present

- Built Web Service component for NMS server – Telnet Scripting feature using Axis and web service description in .wsdd. Uses Apache Velocity servlet architecture for browser access to the web service.
- Designed service for QoS feature. Uses LDAP for policy data and SNMP for communication to network switches. Service framework implemented to be feature extensible via XML configuration.
- FTP/SFTP Server Backup Feature Implemented using jar and j2ssh package in Java.
- Designed and Implemented Network Management software in Java (Policy Management, Telnet, VLAN's).
- Modification and building of OpenLDAP server for Linux, Windows and Solaris (written in C).
- Designed and Implemented Application (Java) to manage installation of Netscape Directory Server (LDAP) on various platforms - including creating configuration files and updating LDAP schema. Auto-conversion tool (Java) of LDAP schema from SLAPD to LDAP V3 format.
- Porting of Windows NT applications to Solaris, HP-UX 10.20, HP-UX 11.00, AIX 4.3.2. Usage of porting tools (MainWin and Wind/U) for porting these highly graphical applications.
- Designed and Implemented General purpose service (C++ on UNIX systems) to provide ping and other capabilities to above mentioned ported applications.

* Pontis Research: C++, C, Windows NT, CTOS(Unisys)

** 1993 - 1996

- Designed and Implemented Security services to unite Windows NT and Unisys CTOS systems on network. Multi-threaded service on Windows NT uses Microsoft RPC to communicate with security clients and services on Windows NT systems, and proprietary messaging mechanism (PCconneCTOS) to communicate to CTOS server. Service on CTOS box was written in C and served as central point for distribution to all our Windows NT security services.
- Designed and Implemented GUI application to monitor users logged into network. Uses Microsoft RPC to communicate to security services.
- Designed and Implemented High-level device driver demo for special keyboards with swipe card capability built in.

* Perceptronics: C++, IRIX, AIX, HP-UX

** 1993

- Designed and Implemented DISFE (Distributed Front End) features used to prove concepts for optimal use of network bandwidth(using data compression techniques) for battle simulation protocol used by DOD. etc.

* Digital Sound Corp: C++, UNIVOX

** 1992 - 1993

- Designed and Implemented Proprietary RPC system built to support application developers on proprietary UNIX variant called UNIVOX(used in boxes for telephone companies voice mail systems). Used sockets(TCP/IP) or message queues for transport layer. Built the parser and support libraries for client and server side stubs.

* Mead Data Central (now Lexis/Nexis): C++, SunOS, AIX

** 1990 - 1992

- Designed and Implemented Proprietary RPC architecture development - developed the RPCPP to parse C++ header files and create client and server side stubs.

- Designed and Implemented Z39.50 (version 3, draft 6) Remote Information Retrieval 'target' on SunOS to be used as front-end service to access the Lexis/Nexis database services.

- Used Netwise RPC on the back-end
- socket (TCP/IP) on the front end
- an ASN.1 compiler to encode and decode Z39.50 messages (between 'target' and 'origin adapter').

- Architecture Group research: DCE evaluation and porting effort to SPARC platform (included use of Light Weight Processes). I flew to the OSF site in Cambridge, Mass. in order to provide feedback into a course for DCE being created by OSF.