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## RESUME FOR

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## OBJECTIVE

Middleware and database application design and development project lead using Java based technologies for Windows or UNIX/AIX/Linux.

## EDUCATION

B.A. Physics, B.A. Astronomy, with several Computer Science, Math, English and History courses. University of California, Berkeley – 1980

## SPECIAL / CURRENT EXPERIENCE

Multiple programming Team Lead positions. Takes responsibility for projects and other team members and mentors junior programmers. Excellent interpersonal and written communication skills. System & project design and documentation with Visio and MS Project and Excel. Direct contact with line of business and project management during requirements gathering and refinement to drive out technical solutions.

XML/XSD/WSDL & Web Service experience, IBM/WebSphere Message Queue (MQ) and HTTP messaging (REST). Highly Available Fault Tolerant Java server and client side design and development with JSP, Servlets, Apache Tomcat and JRUN and some Web Sphere and WebLogic app servers (2/2002-8/2007). JDBC with Oracle, SQL Server, and MySQL. HTML, JavaScript, Cold Fusion, and some ASP.NET and ASP web development. Visual Basic with MS SQL Server and Access.

Mortgage, Credit, Loan origination systems and Financial Services experience including Internet online banking and address validation.

[Fair Isaac \(FICO\) Capstone Decision Manager](#) rules system implementation on Windows and AIX. See Bank of America 2/02 to 8/07.

Multi-threaded and client server programming in C++ and Java.  
Developed and managed OS/2 client-server interface between main  
frame and PC clients. See Bank of America 1/93 to 6/98.

Also Network Data Mover (NDM) hands on experience installing and  
invoking it on a Unix server via shell scripting and a Java application  
for uploads and responding to a download event. Partner application  
were main frame applications.

## RECENT EMPLOYMENT / CONTRACT HISTORY

### Recent Study

- Spring MVC
- Spring 2
- Struts 2
- Hibernate / EJB 3
- XSLT for XML to XML conversion

**5/10 to Present**                      **Bank of America Employee**  
**VP Sr Cnslt-System Engineer Analyst, Technical Lead**

Porting eCommerce Address & Phone Validation and Update Project to new technology base: Shared Struts 2 common application code base used by multiple project teams. Leading 3 on shore with 4 off shore developers. Produced most of the necessary pre-production documentation.

Current Project: Address Update application using the QAS address validation service. Leading 1 on shore and 3 off shore developers.

Prior Project: eCommerce lead technical developer of new online banking application. Principal author of our high and low level design documents. Work directly with BofA architects, project management, and the business project sponsors and subject matter experts to fully define requirements and technical details. Collaborate with other technical groups on the solution. Leading 5 on shore developers and 10 off shore developers.

Team is implementing test driven development for manual and automated testing using soapUI dynamic response messages. Creating soapUI regression messaging test suite. Some JUnit & Selenium web testing.

Started on parallel messaging and Drools rules engine. WebSphere 6.x and RAD Windows development environment. Unix test and production environment. Oracle database.

**8/07 to 05/10**                      **CoreLogic Dorado**  
**Sr. Technical Lead Engineer**

XML coding for Dorado to Canadian bank for Loan Application / Credit messages. JSP, Oracle/Hibernate, HTML/CSS maintenance on message viewing internal application. Build support during transition to subversion. Some Flex changes to existing pages.

Tech lead for custom integrations for the Aurora Bank project. Design and lead and code data and document extracts applications to a SSH "lock box". Coded Java transfer application using the Trilead SSH library. Also directed the custom wiring system interface development and the Expere document engine. Installed WebSphere and the Expere document product. Basic project planning. Vendor interactions and integrations support. Worked with DBAs on Oracle upgrades and monitoring.

**8/07 to                      Thornburg Mortgage**  
**7/08                              Manager Enterprise Applications, Sr. Developer**

Assisted Loan Securitization project team in BRD analysis and development of work breakdown structure with MS Project. Currently helping with C# WinForms with VS2008, LINQ, some WCF services, logging, some unit tests, and added LINQ data layer for two tables and stored procedures.

Created .NET C# LabManager VM Web Service client to automate the undeploy and redeploy and inspect deployed VM configurations.

Project Manager for new IT Time Tracking system. Co-wrote the BRD and gathered client, project and activities accounting requirements. Installed OpenSource solution on time. Created SSIS package to move data from MySQL to SQL Server 2005. Created 4 SSRS reports.

Manager for the Enterprise Applications team with two direct reports.

Project lead for Correspondent Web Site password strength upgrade. Wrote BRD, HLD with unit tests, and delivered on time with high quality.

With peers, created high level design for Interfaces infrastructure with enhanced logging and error handling and a message and ETL processing foundation that can have specific application message flows "plugged in" to the framework. Co-designed common logging and error reporting framework.

Some production systems monitoring with IP\*Sentry and some custom code.

Microsoft SharePoint site inventory.

Training during this period:

- AppDev SQL Server 2005 Analysis Services (Data Warehouse and Business Intelligence) CBT.
- SQL Server 2005 MCTS Exam 70-431 (Implementation & Maintenance) book preparation (1/3 complete).
- Real state Backed Securities study.
- Data Warehouse fundamentals study.
- Hibernate
- Spring Dependency Injection / Inversion of Control (IOC)
- Struts
- Yahoo User Interface (YUI) AJAX/Javascript Library

**2/02 to 8/07 Bank of America Employee  
Business Web/Database Team Lead/Sr. Developer**

Designed Highly Available, Fault Tolerant, Hot-Hot SAN based systems for core Loan Processing initiatives for Real Estate Division processing over \$121 billion dollars in annual loan application volume.

JSP and Java, Tomcat. Windows development. UNIX deployment. JDBC with Oracle and MS SQL. Java FTP client. XML parsing. MQ & http messaging.

Evaluated and installed Unix/Oracle Fair-Isaac decision engine (rules based expert system) on Solaris and AIX coordinating with vendor professional services , DBA, and Sys Admins.

Led team creating custom Java applications to route and convert input and output MQ and HTTP XML payloads of segmented and flat text messages.

Designed and co-built JSP/Servlet Risk Reporting website which included the use of AJAX to solve lengthy summary processing times.

Designed fault-tolerant 3DNS, Big-IP IBM Web Sphere based Java J2EE application to manage Loan Approval and Credit pulls for Online Refinance website.

VB utility development. Unix shell scripting to automate decision engine rules migration. ANT scripts to manage code and configuration deployment.

Designed mainframe and distributed interface architecture for important Enterprise Application Integration project which will manage tens of thousands of messages feeding downstream systems.

Spec writing and systems design with MS Word and Visio. MS Project project management for proof of concept, procurement, design, development, testing and production implementation.

**2/02 to UxPro - Consultant**

**11/02 Web Business Database Programmer Analyst**

JSP and Java, Tomcat, JSP/Servlet. Windows development. UNIX deployment. JDBC with MySQL. JavaScript. Web based class and student administration.

**2/02 to Bank of America Employee - Consultant**

**11/02 Business Web/Database Sr. Developer**

WebLogic, JSP/Servlet loan product selection web site. Oracle logging.

**10/98 to Laurel Mgmt, Hellman & Friedman, Osterweis Capital Mgmt**

**12/01 Business Database Programmer Analyst**

Various Visual Basic and Cold Fusion application programs and web sites. SQL Server 7 and Access 97 databases.

**10/97 to Farallon Capital Management**

**6/01 Business Database Programmer Analyst**

Investor relations "rolodex" database and custom mailing manager in Visual Basic 6 and Access 97. Deal summary with capital, net profit, and rate of return in Visual Basic 6 and Access 97 database for all the firm's deals. Advent Axys import and report automation. Excel 97 with Active X spread sheet reports using VB. Real Estate portfolio manager. Other custom reports. Task assignment and completion tracking with Cold Fusion intranet web site. Other internal Cold Fusion web applications. Other VB programs. Access 97 1099 / 1096 report program.

**8/00 to Seneca Capital Management**

**3/01 Business Database Programmer Analyst**

Bloomberg Trading Systems Gateway data loading and daily updates and reconciliation with SQL Server 6.5 and 7.

Helped on Equity and Fixed Income Ticket Entry application user interface and Crystal Reports. Trades database VB application with Excel reports. Advent Axys report, NT Scheduler automation, print to PDF file, deploy to intranet web site.

**7/96 to Bank of America**

**6/98 Internet Home Banking Programmer Analyst**

Java server side and standalone GUI application development with Symantec Café and Borland's JBuilder on NT. Product deployed and tested on Solaris 2.51. CORBA installation and integration testing. Project planning, system design, and documentation with Visio, Rational Rose 4.0, and MS Word. Enterprise Server administration on NT installation and administration for server side Java and dynamic web pages. Also wrote Java server utility to report test environment status to a Java client using KL Group's grid control.

UNIX (Solaris) C++ analysis and maintenance/enhancement of Bank of America's Internet HomeBanking programs with Emacs and gdb debugging. MSIE compatibility and other CGI changes.

Perl 5: Enhanced daily statistics script for browser type, version, and security level analyses. Test environment Perl 5 script for active code version and configuration.

**1/93 to Bank of America**  
**6/96 Project Lead, C++ Development & RS232 Communications**  
Credit Server: Analyzed existing RS232 communications program. Developed generic credit bureau dial-up, login and file transfer application with CodeBase database access and GreenLeaf communications library. Design & implementation/port of DOS Credit Server to OS/2 2.1 Client-Server with LU 6.2 / APPC / CPI-C messaging. Project lead with 4 direct reports. PM GUI & Visual BASIC GUI development. Project planning, system design and documentation.

### **OLDER EXPERIENCE**

Undergraduate calculus, linear algebra, and numerical analysis. Vector based computer graphics. Developed HP printer graphics function library. Data graphing with C programs. AutoCAD graphics developer.

Realtime and embedded assembler applications early in career at Lockheed Missiles & Space Co.

10+ years of C++ and C. Help file creation. Some Perl. Some Advent Axys and Bloomberg Trade Order Systems interface.

Windows 3.1 DLL and C programming. OS/2 programming: GUI (window procedures and messaging), graphics, and interprocess communication. Installation programming with InstallShield and PC-Install.

GreenLeaf RS232 (dial up) communications & modem programming.  
Some LU 6.2 CPI-C / APPC Client-Server messaging.

OS/2 multi-threaded/GUI/database/client-server design, product evaluation, prototyping, and benchmarks. One OS/2 device driver development in Assembler. OS/2 EE database work. See Identix 2/91 - 5/91

C Embedded SQL with Ingres on Apollo at PG&E. Some SQL with IBM Database Manager with OS/2, at Identix. Oracle Embedded SQL with C at Educational Testing Service. Recent Solaris 2.5 development.

Extensive user interface programming. Rule based user input validation development and programming.

Was registered AutoCAD developer. Wrote commercial AutoCAD & Intergraph graphics utility program.

#### **OLDER EMPLOYMENT / CONTRACT HISTORY**

**1/93 to American Data Resources**

**11/95 C, DOS Programming**

Developed fast data analysis and reporting "server" for national home owner mailing list vendor.

**12/92 to Relational Logic**

**4/93 C, OS/2 PM Programming**

Developed OS/2 Presentation Manager Menu, List Box, & Dialog Box front end to network diagnostic utility for Ungermann Bass using C. Owner draw list box.

**11/92 to Educational Testing Service, Emeryville**

**1/93 C, Pro-C (Oracle SQL) Programming**

Developed HP printer graphics function library. Wrote several reports that extracted data from Oracle database and displayed it textually & graphically using this printer graphics library.

**10/92 to SolutionWare, San Jose**

**11/92 C++, Windows Graphics Programming**

Converted Lattice C program to Borland C++ program. Converted the C++ program to a Windows DLL and interfaced it with graphics application. Added Copy Line Parallel function.

**7/92 to**                    **Time Arts, Santa Rosa**  
**10/92**                    **Graphics, User Interface, Installation Programming**  
OS/2 2.0 Presentation Manager programming for high end graphics paint and layout product using IBM C/2. Wrote new layout ruler windows with mouse aware features. Rulers' scale & range changed with bitmap image scale and scrolled window position. Used many Graphics and Windows functions. Window procedures and system and user messages.

**1/92 to**                    **Micro-MRP**  
**7/92**                    **Applications Programming, Foster City**  
Novell Btrieve database manufacturing software. Wrote new modules and modified old programs using Microsoft BASIC. Evaluated GUI tools for future platform independent product release. Modified Visual BASIC Custom Control (Windows 3.1 DLL and C programming).

**1/92 to**                    **Technicon Inc., San Francisco**  
**1/92**                    **Graphics Programming**  
Converted Intergraph graphics files to Toolbook draw commands using Microsoft C and CodeBase.

**11/91 to**                **Spectrum Solutions, Inc., San Francisco**  
**1/92**                    **Home Study**  
Self taught C++ with books and Borland C++ 3.0. Self taught Windows 3.0 DLL and user interface programming with the "Petzold" book and Microsoft & Borland C & C++. Studied Booch method of Object Oriented design.

**12/91 to**                **Audio Access, Hayward**  
**12/91**                **Senior Programmer / Analyst**  
Converted polling RS232 C code to interrupt driven input using commercial serial communications library. Developed software "toolkit" for 3rd party access to Audio Access' hardware.

**5/91 to**                    **Bank of America, Business Systems, Concord**  
**12/91**                **Senior Programmer / Analyst**  
Testing, correction, and new development of QED II PC payroll system. C programming with Vermont Views user interface library. Prime responsibility for rule based validation system. Shared responsibility for data entry system. Used Raima dbVista network database.

**2/91 to**                    **Identix, Sunnyvale**  
**5/91**                    **Senior Programmer / Analyst**

OS/2 communications card device driver in assembler. C messaging interface to device driver. OS/2 C DLLs, threads and semaphores. Database design. Object/1 GUI and database evaluation. User interface design. Some WAN design. OS/2 EE database work. Conversion of Turbo C AppleTalk firmware and TSR to Microsoft C 6.0 and MASM 6.0.

**12/90 to**                    **Summation Legal Technologies, San Francisco**  
**2/91**                        **Senior Programmer / Analyst**

Coding and internal design of Word Perfect to ASCII translator. Buffered I/O.

**8/90 to**                    **Vertex Design Systems, San Francisco**  
**12/90**                     **Senior Programmer / Analyst**

Coding and internal design of 2 Manufacturer's Electronic CADalogs for ACAD developer. Development on IBM PC in Microsoft C. Menus, data entry screens, dBase III database, and graphics file creation with proprietary software. Rule based output.

**5/90 to**                    **Spectrum Solutions, Inc. (self), San Francisco**  
**Present**                   **Product Design & Senior Programmer**

Registered AutoCAD developer. Design, coding, demo and documentation of AutoCAD third party utility. Development on IBM PC in C and ADS. Graphics file creation and plotting. OS/2, Microsoft & Metaware C with Pharlap DOS extender. User Interface data entry screens in C with Vermont Views. dBase IV database with Codebase C library.

**2/90 to**                    **Security Pacific Bank, Glendale**  
**5/90**                        **Senior Programmer / Analyst**

C programming & testing under OS/2. Interprocess Communication (IPC). Queues, threads, and semaphores. Communication link handler and data router between Host mainframe and Work Station. C "guru" for junior programmers. Participated in design modification & code walkthroughs.

**6/89 to**                    **Micro-MRP, Foster City**  
**10/89**                     **Consultant & Programmer Analyst**

Requirements analysis and coding of Employee Labor Tracking Module. Development on IBM PC in BASIC. User Interface data entry screens & reports. Integrated module with existing code.

**5/89 to**                    **Capital Guaranty, San Francisco**  
**8/89**                        **Consultant & Programmer Analyst**

dBASE IV database creation and data conversion. Development on IBM PC in C. Assisted in database design and loading from text files. Wrote several C utilities to convert and edit raw data. Did database conversions. Gave basic dBASE instruction to database administrator. Used report generator to make various reports.

**1/88 to**                    **Lockheed Missiles & Space Corp., Sunnyvale**  
**5/89**                        **Consultant & Programmer Analyst**

Requirements analysis and coding of flight computer for a space shuttle experiment package. Development on Sun 3 Unix in C. Extensive C to hardware interface. Memory mapped I/O, UARTs, MDACs, external Equipment Items. Real time acquisition and tracking control.

**4/85 to**                    **Spectrum Computer Services, San Francisco**  
**12/91**                      **Author (Design and coding of Intergraph products)**

Commercial quality graphics formatting programs for stored graphics images (Cell Libraries) and fonts.

Commercial quality time accounting package for Intergraph PC based graphics work station. Microsoft C, Windows for Data windows and screen forms library, and dBC III C to dBASE III file access library.

**6/87 to**                    **Pacific Gas & Electric Company, San Francisco**  
**12/87**                      **Consultant & Programmer Analyst**

Apollo C and FORTRAN, INGRES database. C with Embedded SQL & QUEL database access and manipulation. INGRES Data Base Administrator. Apollo FORTRAN graphics. Some UNIX.

**5/87 to**                    **Tudor Engineering Company, San Francisco**  
**8/87**                        **Consultant & Programmer Analyst**

Intergraph Graphics & Database Programming, VAX FORTRAN. Modified graphics files based on database characteristics. Maintained and fixed database. Fixed & enhanced data entry & validation program. Trained replacement.

**10/86 to**                 **Church of Scientology, Mission of San Francisco**  
**4/87**                        **Consultant & Programmer Analyst**

Xenix / Altos multi-user system, Informix data base, C Programming. Modified existing Informix programs and data base structure. C programming, curses C to screen interface. Analyzed existing system vs. new needs. Wrote proposals for software/hardware upgrades. Data base integrity.

**4/85 to Pacific Gas & Electric Company, San Francisco**  
**1/87 Contract Programmer Analyst, Graphics and Data Base**

Intergraph Graphics & Database Programming, VAX FORTRAN 77 interface to data base & data entry validation, memory mapping programs to compare information in DMRS database with data from an IBM main frame 40 times faster than by using standard software. Utilized Graphics internals, HOL, IGDS, VAX library calls, and user commands.

**2/85 to Bank of America, San Francisco**  
**10/85 Consultant/Programmer Analyst, U.S. Wholesale System (Employee)**

Pascal & Assembler programming on IBM PC's for the Foreign Exchange application. Local Area Network (LAN) for PC communication. Researched Bisync System 34 communications module (in PC) for conversion to an SNA link to IBM mainframe. Researched replacing S/34 and NeStar LAN with DEC VAXs running DECNet with SNA interfaces.

**12/83 to General Electric Professional Services, San Francisco**  
**2/85 Programmer Analyst (Employee)**

Maintained and enhanced the Order Entry Systems for two divisions of Levi Strauss. Frequent client interaction included status meetings to determine sizing of tasks and systems impact. Programs were on-line, batch, and 50,000+ Honeywell/FORTRAN 77 source code lines.

**4/80 to Lockheed Missiles & Space Co., Sunnyvale**  
**7/83: Programmer Analyst / Engineer (Employee)**

Applications programmer and task leader for Sun Sensor and other projects. Responsible for design, programming, manufacture, testing, data analysis and budget management. Successfully met critical schedule deadlines and had secret clearance status. Assembler.

Project Lead and programmer for team developing an embedded computer test system. Interfaced with two other microcomputer systems. Assembler.

Designed, built and programmed rotation simulation circuit using IC's and EPROM's. FORTRAN.

Project Lead for team simulating vehicle attitude in space. PASCAL.

**9/77 to  
3/80**

**University of California, Berkeley  
Teaching Assistant (while attending college)**

Functioned as Computer Science and Physics teaching/research assistant. Performed computer analysis, lab work, tutored Physics, Pascal and FORTRAN.

