

David Bulmore

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SUMMARY

I'm a software developer with more than 20 years' experience working mostly with Java related technologies, C/C++, database, and web development (both browser and server side technologies). Much of my early career consisted of working with C/C++ on UNIX based systems and Microsoft Windows, while the last 12+ years have been mostly Java related. I have led several projects and utilized several methodologies, including UML and Agile (XP, SCRUM). I have full project life cycle experience from requirements gathering, design, and development, to documentation, testing, and deployment.

EXPERTISE

Operating Systems: UNIX (most flavors of AT&T and BSD), Linux, Windows(9x,2x,NT,XP)

Languages: Java, C, C++, XHTML, HTML, XML, JavaScript, CSS

IDEs/CASE Tools: NetBeans, Eclipse/STS, RAD, Rational Rose, Enterprise Architect

Build/Test/CM: Ant, JUnit, jMeter, JProbe, Subversion, CVS, StarTeam, Make, Maven

Java: J2EE (EJB, WS, JMS, Servlets, JSP, JSTL, el, taglibs and tag files), Swing/AWT, XML(SAX, DOM, JDOM, Dom4j), RMI, JDBC, Reflection, 2D, JNI, Collections, actually use/experience with most Java packages

Web Programming: HTML/XHTML, XML, CSS, DOM, JavaScript, CGI, REST (RESTful web services), jQuery, EJW / jWebApp, Struts, HTML-Kit, HomeSite, Perl, Tomcat, Resin, web standards and table free design

Spring: Core, AOP, MVC, WS, JMS

Methodologies: UML, XP, SCRUM

Database: JPA, Hibernate, IBatis/MyBatis, EJP / jPersist, Oracle OCCI, SQL, Pro C/ESQL, Experience with most SQL-based relational databases including Oracle, DB2, Sybase, MySQL, HSQL, Derby, PostgreSql, H2

Database Design: Database Design Studio, Erwin, ER/Studio, MySQL Workbench

Communications: Java J2EE, Java Sockets, UNIX Sockets, Windows Sockets, Async Communications on UNIX and MS-DOS

Graphic Design: Corel Draw/PhotoPaint, Fireworks, Paint Shop Pro, GIMP

HIGHLIGHTS

- Designed and developed several large and popular projects, including: ContentRoller, Easy Java Websites (EJW) / jWebApp, Easy Java Persistence (EJP) / jPersist, and the MemSL.
- Designed and developed a C++ medical claims parser that parsed 4 billion claims (NDC Health) in an initial load, and continued to parse 70 million claims per week.
- Designed and developed the client GUI (Swing) portion of PathDB, which was featured in Sun

Microsystems' booth at Super Computing 1999. PathDB was also NCGR's main attraction at the Plant and Animal Genome Conferences for two years. PathDB was also Nature magazines preferred choice for standardizing pathway images for its magazines.

EXPERIENCE

2004 - Present **DabuTech Inc. / Software Sensation Inc.** **Phoenix, AZ**
Principal Software Developer Work extensively with all aspects of Java

Designed and developed several projects, including: Easy Java Websites (EJW) / jWebApp (a model/view/controller (MVC) web development framework), Easy Java Persistence (EJP) / jPersist (an automatic object/relational mapping (A-O/RM) persistence framework), Memory Structures Library MemSL (C Abstract Data Types (ADTs) / C++ collection classes), and ContentRoller (software framework for social news, links, blogging, magazine oriented websites).

2003 – 2004 **NDC Health** **Phoenix, AZ**
Sr. Software Developer Java, Web (JSP/JSTL, CSS, JavaScript), C/C++

Developed a multi-threaded medical claims parser in C++ that was used to parse two years of historical medical claims data (4 billion claims consisting of UB92, NDM, and HCFA). The program ran continuously for 3 months on several Linux machines, and is in continued use to process 70 million claims per week.

1998 – 2002 **NCGR** **Santa Fe, NM**
Sr. Software Developer Java, Swing, RMI, Sockets, JDBC, UNIX, UML

Developed the client side of a product called PathDB (a metabolic pathways [biochemical reactions] database). PathDB was featured in Sun Microsystems' booth at Super Computing 1999, and it was also NCGR's main attraction at the Plant and Animal Genome Conferences (1998 - 2001). PathDB was also Nature magazine's choice for standardizing pathway images for its magazines.

1996 – 1998 **AlliedSignal Aerospace** **Phoenix, AZ**
Sr. Software Developer C, C++, CORBA, Pro C, UNIX, UML, Sockets

Led the development of the server side of a parts tracking application mandated by the FAA. The platform was HP-UX. We used C++ and CORBA with an Oracle database (using embedded SQL), and a Visual Basic front end.

1994 - 1996 **Honeywell/Bull** **Phoenix, AZ**
C/C++ Programmer C, C++, UNIX, UML

Worked on Open-CICS (UNIKIX) and implemented a debug environment where entry/exit tracing and logging could be turned on at will. If a customer called in with a problem they could simply turn on the logging and evaluate the problem. Also implemented memory debugging which uncovered hundreds of memory leaks in more than 1 million lines of C code. Was then put in charge of enhancing and maintaining the VSAM implementation.

1992 - 1994 **GTE (Verizon) Health Systems** **Phoenix, AZ**
C/C++ Programmer C, C++, UNIX, Low-level Async Communications

Designed and implemented their dial-up communication package, EZCOMM III. On average, line-time was cut from 1/2 hour to 2 minutes (mostly using up to 80% compression with the pkzip library)

on multi-megabyte files. As a result, was promoted to Research and Development Manager. Was also offered a position in their corporate offices in Tampa, Florida (not wishing to live in Florida, I declined).

GTE and NEIC began working to provide a large dial-up network for doctors' offices; they selected EZCOMM III over many other evaluated products (this all being prior to the wide availability of TCP/IP and PPP, when we were still using zmodem/xmodem dialup protocols).

1990 – 1992	MicroAge	Tempe , AZ
UNIX/C Programmer		MS-DOS, UNIX, C

Worked on a project called Electronic Store Front (ESF), which MicroAge used in its stores for point of sale (POS). ESF was developed using the first version of Microsoft Windows and C, with dialup modems using the XMODEM protocol.

1987 – 1990	Trader Publications Inc.	Phoenix, AZ
System Administrator, Programmer		Pascal, Fortran, C, UNIX, Curses

Worked as a system administrator and developer on one of the first publicly available versions of UNIX (on a Wycat server). Developed their Customer and Ad-tracking system, as well as the circulation system. The ad-tracking system also included ad-text pagination (printing the pages for the magazine), which was developed in PostScript.

National Trader Publications (bought by COX) began assessing different systems for developing a national system, and among the most preferred was mine. It took first place in customer- and ad-tracking, typing and typesetting, and, as they often commented, the appointment-setting system was the "best we have seen anywhere."

Also developed a mathematical formula that COX newspapers estimated would save millions every year in overstocking. Was also offered a position at their corporate offices in Clearwater, Florida (not wishing to live in Florida, I declined).

1985 – 1987	Glendale Community College	Glendale, AZ
Computer Lab Tech		Part Time While Attending Classes

Assisted students in the High-Tech Center in-between attending classes. Working with both PCs (back in the MS-DOS days) and Digital VAX 11. Also worked as a teachers assistant in computer related classes, and was given an unsolicited commendation by several teachers, which led GCC to recommend me for a software developer position with Trader Publications (Auto Trader).

EDUCATION

- **Glendale Community College** – Computer Information Systems
- **Arizona State University** – Computer Science

TRAINING

- **ASU** - 6 months training in UML and CMM (onsite training at Honeywell/Bull)
- **Sun Microsystems** - Advanced Java Software Development