Resume

**William E. Fike**

Longmont, CO 80503

(303) 485 - 0953

[BoulderWill@hotmail.com](mailto:BoulderWill@hotmail.com)

**Personal:**

U.S. citizen, no security clearance

Purdue University, BS Electrical Engineering (computer systems)

A list of references will be provided on request.

**Systems Background Summary:**

Languages and Layered Products - C, C++, STL, Oracle ( PL/SQL and OCI ), PostgreSQL (pl/pgsql), Sybase, Transact SQL (T-SQL), Unix internals, pthreads, TCP/IP, Sockets, SNMP, Pascal, PL/I, Fortran, VMS internals, X-Windows, Motif, Unix Scripting Languages, Cygwin

Operating Systems – Unix ( AIX, Solaris, HP-UX, Linux, SCO ), Windows NT, VMS, VAX ELN, MVS

Hardware – Sun Sparc, IBM RS6000, HP, VAX, assorted PC clones, IBM mainframes

**Professional Experience:**

My background includes 20+ years of experience with system design, development, and testing in a variety of languages and operating systems. The project environments have ranged in size from multinational Fortune 500 companies (such as IBM, Thomson Reuters, JP Morgan Chase, etc.) to venture startups. Most of these projects were done on a consulting basis, though I am available for both contracts and full-time permanent positions. I have good communication skills, work well on teams, and come up to speed quickly on new projects. My most recent projects are as follows:

**Jan/13 – Apr/16, TeamQuest Corp., Clear Lake, IA C/C++/Oracle/Postgres Developer**

TeamQuest Corp. is a leading provider of performance and capacity planning software systems. It maintains nearly 700k lines of C/C++/Java code to collect detailed information from a variety of storage systems, virtualization systems, database servers, and network devices. These systems store massive amounts of data in one of three databases (Oracle, PostgreSQL, and/or a proprietary database) on a variety of different hardware/OS platforms. While much of my tenure at TeamQuest was spent maintaining and enhancing those 700k lines of code, my major accomplishments were

* I designed and created an extension to the PostgreSQL pg\_dump utility to allow customers to do partial data exports. The relatively small partial exports could then be returned to TeamQuest customer support for analysis.
* I researched the interaction between theTeamQuest product work flow and PostgreSQL table/index storage management. I designed a partitioning strategy to minimize storage requirements. The newly partitioned tables were up to 75% smaller. Also, queries against the smaller tables were substantially faster.
* I later used a similar approach to emulate partitioning on Oracle Standard Edition servers which do not provide the Partition Feature.
* When TeamQuest acquired a small company whose products only executed on MS Windows and the SQL Server database, I worked with the acquired team to migrate their database schemas and stored procedures to the PostgreSQL environment.

This work was done on Windows, Linux, AIX, hp/ux, and Solaris in C, C++, SQL, PostgreSQL PL/pgSQL, and Oracle PL/SQL.

**Feb/12 – Aug/12, Comcast Cable, Englewood, CO Oracle Developer**

Comcast is one of the largest providers of cable, Internet, and telephone services in the United States. One of the key systems for managing the telephony service is the TPP (Third Party Provisioning) system. As a member of the TPP development team my primary responsibility was the migration of the system from a Sun Solaris Oracle 10g platform to a Linux Oracle 11g six node RAC platform. This involved configuration data reviews and PL/SQL scripting to modify that data. Much of the activity in this system is done by ksh jobs managed by a product called UC4. I modified hundreds of ksh scripts to accommodate changes required by the new system. This work was done with Oracle PL/SQL, PL/SQL Developer, Toad, cygwin, and ksh.

**Oct/11 – Jan/12, Century Link, Denver, CO Oracle Developer**

CenturyLink is the third largest telecommunications company in the United States. When it acquired Qwest it undertook a large project to migrate Qwest’s PeopleSoft business applications to SAP. My role on this project was to review and fine tune the PL/SQL scripts which migrated business data from the PeopleSoft database to the SAP database. I utilized Oracle PL/SQL, Toad, and cygwin to accomplish this.

## Aug/10 – May/11, Ball Corp., Boulder, CO Oracle Developer

## The Ball Aerospace & Technologies Corporation (BATC), a subsidiary of Ball Corp., is a leader in the design, development and manufacture of innovative aerospace systems, imaging systems and satellites for the US Defense Dept. and civilian companies. There is a major project, GHRMS, within Ball to re-architect the human resources (HR) processes. As a member of the GHRMS team, I designed new as well as modified existing Oracle PL/SQL, ksh, and PeopleSoft SQR scripts to adapt systems to the new architecture. In addition to those technologies, I utilized Toad, cygwin, and Sun Solaris to implement corporate objectives.

## May/06 – Sep/09, Thomson Reuters, Denver, CO Oracle Developer

The Lipper Division of Thomson Reuters is the global leader in supplying information, analytical tools, and commentary on mutual funds and hedge funds. It maintains enormous databases of historical global securities data and mutual/hedge fund portfolio information to support its product sets. My daily responsibilities included the analysis, design, implementation, and testing of new features and code fixes to the existing Oracle PL/SQL stored procedure packages. I also wrote complex programs to detect and correct corrupt data in the database. In addition:

* As a senior team lead, I re-architected the staging control portion of the portfolio processing subsystem and directed a group of international contractors on the implementation. Despite the fact the new subsystem does many more calculations and quality checks, the new subsystem has more than 10X the performance of the old.
* I worked with fellow team leads to redesign other existing subsystems, integrate them, and migrate them from Oracle 9i on Solaris to Oracle 10g on Linux.
* When a key developer on a new major financial project abruptly resigned, I took over that position, designed enhancements to the database, and wrote several performance-critical stored procedures which enabled this project to stay on schedule.

This work was done on Windows XP, Solaris, and Linux platforms using Oracle PL/SQL, PL/SQL Developer, cygwin, Rational ClearQuest and ksh scripts.

## Mar/06 – May/06, ADP, Fort Collins, CO Oracle Developer

ADP provides a variety of background check services. Much of the information gathered for these services is collected manually off web sites and inserted into their in-house application named ASAP. Fetch Technologies, Inc. has created a generic tool set to navigate and extract information from web sites. My task was to design a “proof of concept” interface between the ADP ASAP system and a Fetch Technologies server to automate the manual tasks. This work was done on a Windows XP platform using Oracle PL/SQL, Toad, XML, and the Fetch Technologies GUI-based scripting language.

## Aug/04 – Nov/05, Bank of New York, NY, NY C/Sybase Developer

The Bank of New York (BoNY) is the world’s largest provider of tri-party repurchase (repo) agreements. On a typical business day it processes around $1 trillion of repo agreements for financial institutions all over the globe. These agreements are managed by the RepoEdge® system – a complex, distributed collection of web, database and application servers. On this project I worked as a developer to maintain, enhance, and support the RepoEdge. This involved creating new and modifying existing C programs and Sybase Transact SQL stored procedures. I also ported applications from the Alpha VMS platform to the Solaris platform. Technologies used: Solaris, Alpha VMS, C, Perl, HTML, CGI, Rational ClearQuest, Sybase, Transact SQL (T-SQL), Swift, pthreads, TMX, MQ Series, CMM.

## Sep/03 – Jun/04: Swift, Manassas, VA C++/Oracle Developer and DBA

SWIFT (Society for Worldwide Interbank Financial Telecommunication) is an industry-owned cooperative which supplies secure messaging services and interface software to 7,000+ financial institutions in 200 countries. As a member of the development team, I designed, developed, reviewed, and tested enhancements to the back-end SWIFT switch systems by creating new and modifying existing C++ programs and Oracle PL/SQL stored procedures. This work was done in C++, Korn shell (ksh), Oracle PL/SQL, SQL, Perl, Rational Clearcase, CMM, and XML on a HP-UX platform.

**Aug/00 – Aug/02: Micromuse/NetOps, Longmont, CO**

**Feb/97 – Aug/00: Micromuse/NetOps, Pleasantville, NY C++/Oracle Developer and DBA**

Micromuse sells sophisticated network analysis products to organizations with large WAN networks, primarily ISPs and telecommunications firms. My initial task was to work with a team of engineers to create the Do It Yourself (DIY) network analysis service. This service used Oracle8, JavaScript, and Perl web technologies to analyze SNMP data that customers uploaded to a web site. My responsibilities encompassed both database administration (DBA) and software development/testing. The DBA duties included database installation, configuration, schema design, tuning, account maintenance, and documentation. The development work involved the design and implementation of PL/SQL stored procedure packages and triggers, data extraction and loading tools, a C/C++ API library to allow programmers to interact with the database via the Oracle Call Interface (OCI), and various programs and Korn shell scripts used to implement and test the DIY analysis. I created complex scripts and utilities to perform integration, system and regression testing of the system and its reference data. This project was begun on an NT 4.0 platform with Visual C++ and then moved to a Solaris 2.6 platform with Sun Workshop and gcc. To enhance performance I ported much of the Oracle PL/SQL stored procedure packages into C++. This effort began with the Rogue Wave class libraries, then switched to the Standard Template Library (STL).

Later I adopted some of the core technology from the DIY service for a real-time multi-threaded network analysis product named Visionary. The Visionary development was done on Solaris and Linux platforms and then ported to AIX, HP-UX, and Microsoft Windows.

I also designed and implemented a polling server called the Data Mediation Layer (DML) polling service as well as its proprietary message architecture. I developed complex multi-threaded test clients to validate the server. This was implemented in C++ on Linux utilizing TCP sockets and the ACE Framework.

## Jun/97 – May/00: Capital Access, Greenwich, CT C/Sybase Developer

Capital Access created software for management of securitized financial assets. I designed, implemented, and tested a multi-process interface between their application and the ATT EasyLink electronic messaging service. This work was done in C, Sybase, and Transact SQL (T-SQL) on a Solaris 2.6 platform utilizing UDP sockets.

## May/96 – Feb/97: J.P. Morgan Chase & Co., NY, NY C++/Oracle Developer

I was one of a two-person team which designed, implemented, and tested the Faxlink system for the bank’s syndicated loan group. This multi-threaded system provides an interface between AgentPlus (a Chase proprie­tary asset management system) and the ATT EasyLink electronic messaging service. This work was done in C++, Oracle7, SQL, pthreads, and Korn shell scripts on a Solaris v2.5 platform.

## Apr/94 – Apr/96: Advantis, White Plains, NY C/Sybase Business Analyst

Advantis, a former IBM telecommunications subsidiary, provided multi-protocol network connectivity and management services. I worked with the NCMS. This application performed provisioning tasks, inventory control, and network topology management for customer LAN/WAN networks. I gathered user requirements, designed enhancements to NCMS, designed interfaces between NCMS and the Advantis DB2 mainframe order entry system and performed acceptance, integration and regression testing of the system. Advantis had a multitude of databases and data repositories scattered among its functional units. I participated in the review, cleanup, and migration of this data to the NCMS. This work was done on AIX using Motif, C, Korn shell scripts, and Transact SQL (T-SQL) using the Sybase and OMNI SQL Server database managers.

**May/92 – Feb/94: IBM, Milford, CT Network Test Engineer**

The HPCC division of IBM provided the hardware and software used to operate the NSFnet backbone routers (predecessor of today’s Internet). These specialized IP routers were based on the RS6000/6611 platforms and the AIX/Unix operating system. As a member of the System Test Group I performed architecture design/code reviews of AIX kernel extensions (including if-layer and device driver extensions), support daemons and adapter microcode. I developed and executed integration, system, and regression test plans to verify that HPCC software and adapters met RFC requirements, HPCC performance standards and survived pathological load conditions. Simulators and client-server test applications were designed and developed in C and Korn shell scripts using Unix internals, TCP and UDP sockets, lex, yacc, Motif/X-Windows, make, etc. I supported and enhanced an existing IP packet generator used to create heavy IP traffic flows.