

DAVID W. STEELE

SUMMARY OF QUALIFICATIONS

Fourteen years experience in software development with strong technical skills including systems analysis, architecture, and implementation with recent experience in database design, PL/SQL and Java programming. Excellent interpersonal skills allow me to work effectively in teams as a member or a leader and to interface directly with customers.

CURRENT RESPONSIBILITIES

Software engineer for a small firm with various responsibilities including functionality and performance enhancements to an expert system used in the health care industry to evaluate patient records in order to suggest courses of treatment and modification of open source AFS software to provide a web interface for George Mason University.

CAREER HISTORY

- 2006 – 2007 Sine Nomine Associates – Ashburn, Virginia *Reference: Evan Macbeth – 703.723.6673*
- Designed and coded enhancements to a web-based expert system written in JSP, servlets and EJBs. The system was responsible for doing patient triage for major health care companies and was fully configurable by the administrator to include new interviews, questions, decisions, recommendations, courses of treatment, etc.
 - Modified an open source project called “File Drawers” to remove all hard-coding for the University of Michigan and make it generic enough in the interface and AFS back-end to be used by any organization. Analyzed AFS issues for large corporate and university clients.
- 2004 – 2006 Mobile365 – Singapore / Chantilly, Virginia *Reference: Jim Farrow – 301.471.7090*
- Maintained a 24/7 mission critical Oracle 9i database in Singapore. Responsible for ensuring maximum uptime as well as making design changes to support new code, optimizing queries for performance, and designing strategies to improve data integrity. Wrote generic reporting engine in PL/SQL and Java and fully automated all the archive and truncation processes. Designed and coded data warehouse solution and automated numerous manual extract and reporting tasks.
 - After returning to Virginia, shifted roles and started considering how best to redesign the database to reflect actual accounting practices and to correct for design flaws in the original system. The database in question was acquired through a merger, so a lot of analysis was required to understand the dataflow given that documentation was sparse. Replaced all legacy systems written in Perl with modular and well-documented PL/SQL and Java code, undertook massive changes to a running, production database, and increased data integrity with rigid constraints and triggers. Enhanced the generic reporting tool to handle new output requirements (Quoted CSV, Excel, etc.), added new testing features and alerts. Supported the production DBAs by writing new reports, porting old Perl code to PL/SQL, and researching the data dictionary. Took ad hoc requests from management for analysis of trends, traffic, etc.
- 2002 – 2005 Study & Travel Sabbatical
- Study consisted of a summer in Budapest studying Hungarian and one semester plus a summer class at George Mason University finishing a Bachelor’s Degree.
 - Twenty-five months of travel encompassed six continents and thirty-seven countries, including volunteer teaching in Thailand, working in Singapore (see above), and copywriting for an ad agency in Istanbul.
- 2000 – 2002 Masergy – Merrifield, VA *Reference: Jim Sullivan – 301.451.6372*
- Designed and wrote an extensible web-based configuration program in C/Unix for all the company’s routers, switches, etc. The program was so simple to maintain and extend that the engineers took on the task themselves.
 - Designed and wrote a complete rules-based network tracking, management, configuration, and provisioning system in Java using Java Servlets and JSPs on Tomcat and EJBs on JBoss. The system stored every detail of every device on the network down to the level of physical/logical interfaces as well as virtual circuits such as VLANs and VPNs. The system could generate a text configuration for any device on the network that accepted such configurations based on the configuration information stored in the database and was also capable of checking the information in the database against the network devices on a daily basis. Discrepancies were reported to the NOC via the web-based interface. Supported automated activation of services (such as rate changes) on any network device. Entire system (network topology, configuration scripts,

validation scripts, and automation scripts) was programmable by competent engineers using a specialized meta-language (DDL) and JavaScript. Responsible for the database design, optimization, and subsequent production support.

1997-2000 Northrop Grumman – Chantilly, VA

Reference: Bob Hyer – 703.272.5030

- Designed and wrote a distributed object brokering system using DCOM in Delphi. Business logic was implemented in middle-tier DCOM services. A brokering server handled all object requests and featured multiple server support and load balancing. A custom query server handled SQL for the entire system as well as pooling database connections and optimizing queries.
- Redesigned the above system to use MTS 2.0. Created a conversion plan for porting the existing middle-tier servers to stateless objects, as well as taking advantage of connection pooling in MTS.
- Wrote install scripts to install 16 and 32 bit programs on a variety of platforms using InstallShield 5.0. The scripts install client and server programs as well as creating Oracle and SQL Server databases.

1996-1997 Oracle – Herdon, VA

- Modified an existing image viewer written in Visual C++ 4.1 with MFC, giving it the capability to view plain text and rich text files.
- Designed and wrote several background server processes in C to run on a Sun UltraSPARC. These processes were involved with processing batches through a document imaging system. Also designed and wrote a process server to run as a daemon and monitor the database to determine when jobs were ready for the other servers. This multi-threaded program included a TCP-based protocol that allowed jobs to be started and system status to be determined from any platform.
- Designed and wrote a bulk scanning application in Visual Basic 4.0 (16-bit) using the Pixel Translations Isis libraries.

1995-1996 Cordant – Reston, VA

- Designed and maintained the data model for the USPS POS I program. Designed a client/server system using SQL Server 6.0 with MS Access 7.0 as a backup offline database. Wrote an OCX using Visual C++ 2.0/4.0 and MFC responsible for transferring database access between the local and server databases. Wrote a transaction despooler to handle offline sales. Wrote an OCX responsible for all transaction processing and rate/fee calculations.

1994-1995 Stanley Associates – Alexandria, VA

- Wrote a condition-monitoring module in Delphi. The module displayed expert system reports, vibration analysis graphs, trend graphs, and lube oil analysis charts.
- Developed and implemented a Windows DLL in Borland C++/Visual C++ that provided a Gantt display for a PowerBuilder application. The interface allowed a hierarchy of entries which could be expanded and collapsed, bars which could be dragged with the mouse to change dates, and a spreadsheet below the Gantt with dynamically updated fields. Printed output supported plotter, laser, and dot matrix printers. Capability to run multiple instances, have multiple bars per line and multiple labels per bar, plot periodic milestones, and allow more user options.

1992-1994 SoftQuote – Flagler Beach, Florida

- Developed and implemented engineering software in Borland C++ 2.0/3.X for major telecommunications companies (NEC, NTI, Alcatel). Included algorithms to automatically allocate DS1/DS3 traffic, determine TX/RX characteristics of LED/Laser transport systems across fiber connections, and intelligently allocate equipment to find lowest cost configurations and well as maximizing equipment usage.

SKILLS

Languages C, C++, Delphi, Visual Basic, Java, Perl, PHP, PL/SQL

Systems Solaris, Linux (esp. Red Hat), Apple OS X, MS Windows (All Versions)

Databases Oracle, SQL Server, Postgres, MySQL

Other Graphics, Graphics Formats, Compression, Encryption, Custom Databases, Interfacing C/C++ with Delphi/VB, DLLs, Windows Printing, InstallShield, Client/Server Applications, OCXs/Delphi Components, Data Model Design, Imaging, Internet protocols (esp. IMAP), COM/DCOM, MTS, Distributed Architectures, NT Services, Cisco/Juniper Routers, Extreme Switches, Compilers/Interpreters (lex & yacc), J2EE, EJB, JBoss, JSP, Web Clients, Thin Clients, SQL DB/Query Optimization, VMware ESX/GSX/Workstation, Postfix, Tomcat, Apache

EDUCATION

2003 George Mason University
Fairfax, VA
Bachelor of Computer Science