**Andrew Peter Marlow**

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**Profile**

Thirty+ years in IT have given me a wide breadth of experience in financial, technical and industrial fields, and over that time I have developed, in a number of established and evolving computer languages, the expertise necessary to make an immediate and effective contribution in a variety of demanding IT situations.

I am currently looking for a new contract involving java, and would be happy with unix/linux or windows.

**Availability** 4 weeks notice.

**Range of Experience**

Areas of experience cover software development as a senior software engineer in a variety of senior roles, designing and implementing software in the financial services sector in the main.

Expert in all stages of the complete software development lifecycle (SDLC), from early analysis and design through to coding, QA and delivery. Have completed the full SDLC for a number of infrastructural and application developments.

**Projects**

* Moved Sungard’s Apex stock borrow/loan system to java 8 and implemented several ECN feeds for booking Apex trades in real time.
* Automated an impact analysis report at Credit Suisse that was previously done manually, and gave it a graphical frontend using java swing. This made the facility directly available to the traders instead of them having to ask users to run scripts on the backend machines.
* Implemented web usage statistics for John Wiley online library with reports and RESTful interface.
* Moved a Deutsche Bank back office doc management system off C++ and CORBA onto java and JMS.

**Platforms**

RDBMSs (Oracle, Sybase) and network communications such as JMS, sockets, TCP/IP, UDP, Tibco, MQSeries and CORBA (middleware), market connectivity and exchange connectivity have featured prominently in the work I have done over the last 15 years. Distributed systems is also an interest of mine, which includes grid computing. I am familiar with object oriented programming and design patterns such as those in the GoF and POSA (for networking and concurrency). The main language I use is C++ but I also do Java development and I have a little C#. The C++ work uses the STL, templates, exceptions and boost. The main platform I use is unix (all flavours including linux) although I am at ease developing on Windows (using Visual Studio). I write my scripts in Python and/or Perl, although I can use shellscript (bash, ksh(Korn), bourne, csh) as well. The main source code control system I use is subversion (svn) but I am in the process of moving over to Git.

My Oracle experience includes versions 7 through 12, using stored procedures, SQL, embedded SQL, OCI, OTL, ODBC, Sqlplus, TOAD, Oracle Designer and oraperl. I used Oracle at FIS, Paribas and ICAP.

My Sybase experience includes versions 10 through 15, using stored procedures, SQL, ODBC, isql, sybperl, CTLib and DBLib. I used Sybase at HSBC, CapCo (Credit Suisse), John Wiley, Lehman Brothers, Deutsche Bank and JP Morgan.

**Career history (most recent first)**

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| java developer | FIS Global (formerly Sungard Financial Systems) | Jan 2015 | To date |

Made various enhancements to the main product, Apex, a securities lending and repo trading system. It is multi-platform (windows, linux and solaris), multi-threaded, distributed, real-time, written in java and C++ and using Oracle and JBoss. It is a well known product in the industry, being the successor to Martini and being deployed in many banks and lending institutions. The project was run using agile, sprints, retrospectives and continuous development. Subversion was used for source code control, JIRA for story tickets, Jenkins for building. The java (version 1.7.0 and 1.8.0) was mainly for the settlement side and interfaces to other downstream systems and was developed using maven and eclipse. The C++ was for the GUI and used MFC.

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| C++ windows developer | Domino Printing Sciences | May 2014 | To Sep 2014 |

Wrote a TCP and serial comms library in C++ for embedded windows.. The code used TCP/IP, UDP, RS232, STL, boost, WIN32 APIs and multi-threading. Development was on Windows 7, WINCE 6 and WEC-7.

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| C++ unix developer | HSBC | Oct 2013 | To Feb 2014 |

Ported a set of reference data feeds from solaris to linux. This helped HSBC to decommission some old solaris kit during a data centre move. Also migrated the source code from Clearcase to Rational Team Concert (RTC).

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| risk windows developer | BNP Paribas | Apr 2013 | To Oct 2013 |

Implemented various improvements and enhancements to a couple of risk systems, one spreadsheet based, the other using a grid system. These systems are business critical because they are the primary way of pricing and assessing risk for all vanilla trades in the bank.. Development was on Windows 7 in a mixture of C++ and C#, all multi-threaded, using Oracle, with extensive work with SQL including stored procedures, functions and packages.

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| Technical consultant | Wellabove Ltd | Sep 2006 | Mar 2013 |

Clients included Deutsche Bank, Lehman Brothers, John Wiley & Sons, BNP Paribas, YouView and Credit Suisse.

John Wiley (October 2008 to October 2009): Java developer:

Helped develop a java web application for making published academic journals and books available online. Concentrated on reporting, which gathers and reports on web usage statistics. The project involved the use of java, spring, hibernate, JDBC, sybase, lucidDb, XML, XSLT, ant and maven and was multithreaded.

Deutsche Bank (2007 to 2008): Java architect:

Migrated their legacy documentation management to from C++ to java and from CORBA to JMS. Wrote a test application for it using Swing.

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| Technical project manager | ICAP | Sep 2006 | May 2007 |

Wrote a java interface between iConnect and Gissing systems as part of my work on maintaining and enhancing price feeds.

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| C++ unix developer  | Bloomberg | Aug 2002 | To Aug 2006 |

Between 1992 and 2002 was a freelance consultant for a number of clients including: Merrill Lynch, CrestCo, Societe Generale, JP Morgan, RBS, Reuters, Extel, Generic Technology, EDS Unigraphics, Nomura and BZW.

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| Software engineer | Various | 1982 | To 1993 |

Roles in different sectors including oil and gas exploration, SCADA, operating system development, battlefield simulation and aircraft safety. Employers include Simon Petroleum (Tigress), Nucleus Software Systems, Bull, Prime Computer, Hunting Engineering.

**Education and qualifications**

Member of ACCU (Association of C and C++ Users) since 2002

BSc(Hons) 2:1 in Information Technology and Computing, The Open University, Milton Keynes 1998-2004

3 A Levels, 5 O Levels, Mark Rutherford School, Bedford 1975-1980.

**References**

Available on request