

## Brian Agnew, OOPS Consultancy Ltd

Mobile: +44 (7720) 397526

Email: [brian@oopsconsultancy.com](mailto:brian@oopsconsultancy.com)

<http://www.oopsconsultancy.com>

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### Profile:

A senior developer/architect with a proven record in designing and developing successful projects using current OO and component technologies. Able to work on own initiative and as part of a team. First-class analytical, design and problem solving skills. Well-versed in current and new technologies. Authored widely used open source tools. Published author, with articles available on established technical websites. Contributor to *Java Power Tools* (O'Reilly, March 2008)

### Qualifications:

#### *Degree:*

B.Eng. Electronic Engineering (1<sup>st</sup> Class Hons)  
Sheffield University 1986-9

#### *Professional:*

Certificate of Quantitative Finance (Wilmott CQF) with Distinction 2009  
SFA Futures and Derivatives Representative 1997

#### *School:*

A-Levels: Maths (A), Physics (B), Further Maths (D), General Studies (A)  
O-Levels: 6 (A + B grades)  
Birkenhead School, Birkenhead 1979-85

### Skills:

Java (up to and including Java 6) + J2EE (10+ years), OO + component technologies (10+ years), Unix development + administration (10+ years), web development (10+ years). Former experience in C/C++. Scripting tools (10+ years). Various distributed technologies (Webservices / RMI / Jini / RESTful services / CORBA)

### Experience:

#### *Dresdner Kleinwort March 2007 to March 2009 (contract):*

I provided architectural and development expertise and mentoring to the Hybrids front office IT team. I specified, developed and provided support for both the traders and the quantitative analysts, and direction and integration skills to peer and downstream teams, handling a wide variety of business data including structured trades, credit and commodities. Solutions designed and developed included overnight grid-based batches, funding report generation, web-based charting and analytic library integration. Technologies include Java Spring + servlets, DataSynapse, and XML/XSD technologies.

#### *Barclays Capital July 2006 - January 2007 (contract):*

I performed a development, architecture and mentoring role in the Equity Derivatives Technology (EDT) group, specifically for straight-through-processing (STP) and sales/trading entry systems. This role encompassed working with a wide variety of Java technologies (including J2EE and Spring) and a range of customers, from production support through to front-office traders and salespeople.

#### *Paremus January 2004 - February 2006 (contract):*

I provided development and architecture consultancy for Paremus' product development, comprising Grid and Java / Jini / Javaspaces technologies. I architected, designed and managed machine monitoring solutions (Linux / Solaris / Win32), the security infrastructure (LDAP) + core Java and Jini infrastructure architecture and development work for Paremus' Infiniflow product. I contributed to their development standards, automated build (Ant) and test environments (JUnit) and the development cycle.

I managed, architected and delivered a variety of product evaluations of Infiniflow for potential customers (including tier 1 investment banks). This has included integrating Infiniflow with 3<sup>rd</sup> party Java/C++/scripted applications (using JNI / SOAP) and working within tight timeframes.

#### *Royal Bank of Scotland June 2003 – December 2003 (contract):*

I provided development and design expertise for front office development group, building Java servers to interface to GUIs using web services. The servers generated information related to fixed income instruments and their derivatives, including credit derivative trades and positions / generated yield curves etc., both via web services and real time updates (Java / Tibco Rendezvous). Development was in conjunction with front office staff and quantitative analysts.

#### *UBS Warburg January 2001 – April 2003 (contract):*

I chaired the Java Special Interest Group (JSIG). The JSIG provided a focal point for the bank's Java developers worldwide. I looked after coordinating demonstrations and evaluations of Java technology, advising on developers' issues, introducing new Java technologies and techniques and guiding development management on Java-related issues.

My design / development work was split into an assortment of projects:

- i) Building core infrastructural components for the UBS implementation of IBM's WebSphere 4.0. This incorporated servlet, bean and JMX technologies, together with JUnit and Log4j toolsets.
- ii) Graphite, a web-based directed-graph rendering package. The development made use of a wide variety of Java-based technologies, including servlets, XML toolsets (SAX/DOM + SVG) and Swing.
- iii) Account management systems for the bank-wide set of system logins. This was a J2EE / JBoss / WebSphere-based solution, integrating with Oracle (8i) databases and LDAP repositories.

*Saudi International Bank: November 1997 – July 2000 (contract):*

I was a senior developer / architect contributing to the development of a new bank wide infrastructure based upon Java and CORBA. The role encompassed collecting of user requirements and their documentation, and the design, development, deployment and support of the solutions. We used UML for the capturing of requirements and the design of services (use cases, class diagrams, sequence diagrams). I build user interfaces using DHTML and servlets / CGI scripts. Platforms included Solaris (back-end) and NT (front-end).

Because this project required the introduction of Java, CORBA and web technologies to the bank, I designed and developed a complete set of development and documentation procedures from scratch, including the building and maintaining of the developers' tools and web site, using Perl, Apache, CGI, DHTML and a wide variety of public domain tools.

*JP Morgan: Feb 1996 – March 1997 (permanent):*

I provided support and development resources for the Fixed Income Futures Research desk. The development required was largely of a rapid-turnaround nature using C / C++ on Solaris, together with a number of scripting and web technologies (Zsh / Perl).

The development ranged from building batch processes through providing user-interfaces to mathematical analysis of the various financial instruments involved, including government bonds, bond and interest rate futures, CTD (cheapest-to-deliver) calculations, option pricing etc. This role required a large amount of customer interaction – from JP Morgan's customers and the trade floor personnel through to the researchers together with relevant business knowledge. I acquired an SFA (Futures and Derivatives) qualification during my time in this role.

*Salomon Brothers: June 1993 – Feb 1996 (permanent):*

I ran the network management project, implementing SNMP and HP Openview across all servers (Solaris). I provided the monitoring tools to be configured and deployed across the enterprise as required by the network and administration staff (C, C++, Perl and Tcl/Tk). I performed some mentoring as part of this project.

*Previous roles:*

Ministry of Defence, Philips Consumer Electronics

**Technology and Tools:**

*Operating Systems:*

Solaris / Linux (RedHat + SUSE) / Windows (NT, 2003, XP) / MacOSX

*Languages:*

Java - Experienced in all SDK releases from 1.1 to 6.0  
 Most J2EE technologies including JDBC / Servlets / JNDI / JSP.  
 Experienced with a variety of Java APIs including JAXP and JAXB / Jini / JMX / Swing  
 Strong skills in using Ant / JUnit and other common Java tools  
 C++ / C / Perl / SQL / Excel VBA / various other scripting languages

*Databases:*

Oracle / PostgreSQL / IBM Derby / Sybase

*Middleware:*

Application Servers (inc. JBoss and WebSphere) / CORBA (OrbixWeb) / Jini

*Web Technologies:*

Servlets / AJAX / Javascript / DHTML / XML / XSL / Apache / CGI / RESTful

*Other Tools and technologies:*

Unix shells and tools / Tibco and Triarch / ClearCase / Subversion / CVS

*Networking and Administration:*

I have knowledge of a range of networking technologies including HTTP, NNTP and SNMP. I run a small network of Linux machines and perform machine and network administration work for various clients.

**Additional Work:**

OOPS Consultancy Ltd. designs and maintains *XMLTask*, a widely used and recognised XML transformation plug-in for the Ant build tool. See <http://www.oopsconsultancy.com/software/xmltask>

OOPS Consultancy Ltd has released *Veduta*<sup>™</sup>, a commercially available enterprise log/server analysis tool. See <http://veduta.oopsconsultancy.com>

**Publications:**

“Java Object Query Using XPath” - <http://today.java.net/pub/a/today/2006/08/03/java-object-querying-using-jxpath.html> - August 2006.

“XML Manipulation using XMLTask” - <http://today.java.net/pub/a/today/2006/11/01/xml-manipulation-using-xmltask.html> - November 2006

Contributed to O'Reilly's “Java Power Tools”, published in March 2008. ISBN-13 : 978-0596527938

**CV Updates**

An up to date copy of this CV can be found at <http://www.oopsconsultancy.com/brianagnew.doc>

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