

# James Webster

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- ▶ Residence: Presently London; Brisbane from September 2009.
- ▶ Nationality: Australian and British citizen
- ▶ Email: [jim@james-webster.com](mailto:jim@james-webster.com)
- ▶ Weblog: <http://www.thenewsbeforethenews.com>
- ▶ LinkedIn: <http://www.linkedin.com/in/jameswebster>

## Professional Summary

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My twelve years of software development experience across a variety of platforms will be of value to the leading participants in financial markets. The rapid evolution in technology within this sector lends itself to my agile and pragmatic approach to development while maintaining a strong focus on quality. My diverse technical skills coupled with my broad understanding of financial markets will be of assistance to buy-side and sell-side firms, retail and institutional investment organisations and their technology providers in achieving innovation ahead of competitors and continued excellence in customer service.

## Skills Matrix

Skill	Competency	Years of Practise	Last Practised
C# and .Net 2.0 development; Windows Forms, ASP.Net Web Services, ADO.Net, Windows Services, Visual Studio 2005	Expert	6 years	Current
Java development; Servlets, Spring Web, JMS, Eclipse and IntelliJ	Expert	8 years	April 2008
.Net P/Invoke and COM interop	Intermediate	2 years	April 2008
Object-Relational mapping patterns implemented via Hibernate, NHibernate	Intermediate	3 years	Current
Dependency injection patterns implemented via Spring, Spring.Net	Advanced	5 years	Current
Microsoft SQL Server 2000/2005; T-SQL, query development, table design (non-admin)	Intermediate	3 years	Current
Microsoft SQL Server Integration Services	Basic	3 months	Current
Oracle; PL/SQL and query development, table design (non-admin)	Intermediate	3 years	March 2009
XML, XPath and XSLT	Advanced	8 years	Current
Continuous integration and automated build and deployment systems via CruiseControl, CC.Net, TeamCity, Ant, Nant, MSBuild; setting up and maintaining such environments	Advanced	6 years	Current
Version control and configuration management via Perforce, Subversion and ClearCase	Advanced	8 years	Current
Unit testing and Test Driven Development via JUnit, NUnit	Advanced	6 years	Current
Object-Oriented Development and Domain Driven Design	Expert	8 years	Current
Grid computing via DataSynapse	Basic	1 year	April 2008
Windows OS competence and basic administration	Advanced	Many years	Current
Unix OS competence and basic administration	Intermediate	3 years	April 2007
Microsoft Office competence	Intermediate	Many years	Current
Microsoft Excel VBA programming	Intermediate	2 years	Current
Financial markets business domain exposure	Advanced	6 years	Current
Agile development methods	Advanced	7 years	Current

## Experience

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### **Barclays Capital**

**May 2008 - Sep 2009**

- ▶ Development - .Net (C#), Windows Forms, ASP.Net Web Services
- ▶ Deployment - Windows, IIS, SQL Server, Oracle
- ▶ Tools - Visual Studio, CruiseControl, ClearCase, NAnt, xUnit

Barclays Capital is the investment banking and capital markets division of the Barclays Group. At the firm I was employed as a senior developer in the Commodity Derivatives technology team. This team supported and evolved a series of applications used by front office, risk management and operations to structure, trade and manage the risk for exotic structured products and derivatives across multiple commodity markets.

- ▶ Worked with front office to design and build new screens, web services and SQL Server database tables/queries to capture the detail of exotic structured product deals.
- ▶ Assisted the support team with rapid responses to production issues reported by traders.
- ▶ Collaborated with the environment manager to improve artifact management and installation processes. Also built new development, testing and disaster recovery environments.
- ▶ Assisted with a major department wide program of work to upgrade Openlink, a core trading system, and remediated our system's interfaces with Openlink including Oracle stored procedures.
- ▶ Enhanced and supported a front office application used for intraday risk management.

### **ThoughtWorks**

**Mar 2003 - May 2008**

ThoughtWorks is a global IT consultancy focusing on custom software development in Java, .Net and Ruby through the use of Agile techniques. Over the course of my career at ThoughtWorks both in Australia and the UK, I worked for a variety of clients primarily in the financial services and capital markets sectors. In addition to delivery responsibilities I engaged in internal business development activities:

- ▶ Assisted salespeople with calls to prospective clients in the capital markets sector.
- ▶ Presented introductory workshops on financial markets to consultants thereby providing them with an opportunity improve their domain knowledge.
- ▶ Worked with HR in the recruitment of new consultants.
- ▶ Presentations at internal conferences.
- ▶ Contributed to ThoughtWorks-sponsored open-source projects.
- ▶ Mentoring of junior consultants.

I worked on the following client projects:

### **Exotic Equity Derivatives Risk Management Platform and Analytics Components**

**Dresdner Kleinwort**

**May 2007 - May 2008**

- ▶ Development - Java, Spring, JNI, .Net (C# and VB.Net), Windows Forms, VB and COM integration, ASP.Net Web Services
- ▶ Deployment - Windows, DataSynapse, SQL Server
- ▶ Tools - IntelliJ, Visual Studio, Subversion, CruiseControl, TeamCity, Ant, MSBuild, xUnit

On this project I undertook a broad range of tasks:

## Experience continued

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- ▶ Implemented a C# wrapper around a proprietary C++ equity derivatives analytics library.
- ▶ Implemented a C# wrapper around an exotic equity derivatives library implemented in VB. As this component runs within a DataSynapse grid I had to ensure that the COM interface of the VB library could be accessed without requiring registration on each grid server. I also implemented simple C++ JNI code to allow the wrapper to be accessed from Java.
- ▶ As part of the effort to implement a C# component for pricing vanilla equity derivatives using the in-house analytics library I implemented the model for dividend swaps and contributed to the framework of the rest of the component. I also introduced better practices surrounding unit testing to this component's development team.
- ▶ Implemented a .Net Windows Forms application used by risk management to track and audit the changes made to trades. This application collaborated with the internal trade and market data systems and grid-based analytics to provide insight into the P&L impact of trade updates. Reporting functionality rounds out the additional features.
- ▶ Worked on the Java-based risk management platform which replaced a legacy Excel/VBA-based solution. The system applied scenario analysis to calculate the intraday and overnight risk reports used by both risk management and traders, initially targeting the exotic equity derivatives desk.
- ▶ Introduced better source control management practices.
- ▶ As part of the larger team I responded to production incidents with the deployed system as necessary.

### **Structured Product Unit Pricing and Trust Management System**

#### **Macquarie Investment Management**

**Mar 2006 - Apr 2007**

- ▶ Development - Java, Spring, Hibernate, Spring Web, HTML
- ▶ Deployment - Unix, Apache Tomcat, Oracle
- ▶ Tools - IntelliJ, CVS, CruiseControl, Ant, Clover

The system was built to manage a structured product's unit trust which invests in wholesale managed funds and bonds on behalf of retail investors. It replaced the existing Excel spreadsheets which the administration team had been rapidly outgrowing to manage a product of its complexity. The requirements of the system were to accurately calculate unit prices, unit holdings and assess tax obligations for the trusts and its unit holders. It also prepared a sub-ledger of the trust accounts which were uploaded to the fund manager's core financial system.

Within a small team I collaborated with the end-users and domain experts (the senior fund administrators) to design, implement and successfully deliver the system. As the developer with the most experience in the financial markets domain my knowledge was a key asset to the team and assisted us in exploring deeper requirements with the users. The client was highly satisfied with the results of the agile development effort having had significant involvement and visibility into the entire process.

## Experience continued

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### **Document Generation System, Suncorp Metway**

**Apr 2005 - Feb 2006**

- ▶ Development - Java, Spring, Axis Web Services, Struts Web, Hibernate, .Net and COM Interoperability via JIntegra, Scriptura XBOS
- ▶ Deployment - Windows, BEA Weblogic, Oracle
- ▶ Tools - IntelliJ, CVS, CruiseControl, Ant, Clover

Within a mixed team I built and successfully deployed through several releases a document generation system for Suncorp Metway, an Australian retail bank and insurer. The objective of this system was to provide a widely accessible service to be used by all other core applications within the bank for document generation, primarily for retail customer applications, disclosure statements and similar forms.

The system was a web services interface in front of a 3rd-party document generation product, Scriptura XBOS. SOAP messages were received and decoded by our web-services front-end and placed onto a JMS queue to be processed by a renderer. The renderer interacted with the XSLT-FO engine to produce PostScript, HTML or PDF output which was then printed, emailed or faxed. This separation of concerns allowed us to easily scale the system to meet enterprise-level demand. The system also provided a WebDAV-accessible template repository for which we implemented a versioning and release control mechanism.

My .Net skills also helped the team eliminate early technical risks. Due to shortcomings in the Java printing implementation on the Windows platform I created a .Net assembly around the key Win32 printing APIs. This assembly was then accessed via COM using JIntegra.

### **Architectural Reviews**

**Jul 2004, Mar 2005**

I have conducted two short-term architecture reviews for ThoughtWorks clients; AMP Capital Investor's portfolio management system and BNP Paribas' FX options blotter. These involved:

- ▶ Interviewing developers and team leaders to understand the basis for architectural decisions.
- ▶ Using analysis and metrics to assess the quality of the code.
- ▶ Assessing the suitability of migrating to either Java or .Net for a VB and C++-based platform.
- ▶ Summarizing and presenting findings to architects and team leaders.

### **Travel and Contract work**

**Aug 2004 - Jan 2005**

For a period between leaving ThoughtWorks UK and rejoining in Australia I undertook some travel and short-term contract work whilst resettling in Brisbane.

## Experience continued

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### **Credit Derivative Trade Capture Application, Deutsche Bank**      **Oct 2003 - Mar 2004**

- ▶ Development - .Net and C#, Windows Forms, ASP.Net Web Services
- ▶ Deployment - Windows
- ▶ Tools - Visual Studio, CruiseControl, NAnt, NUnit

The client required expertise in Windows Forms to build an application for entering and validating credit deals. This work occurred within a large project involving a Java back-end and an effort to map internal messages onto FpML.

I mentored the client developers to build their skills in Windows Forms whilst encouraging them to adopt unit testing and continuous integration techniques. This occurred alongside my development role through pair programming.

Due to the user requirements significant effort was invested into making the GUI completely keyboard driven, requiring customization of the built-in Windows Forms controls and their event handling. The client also required the use of a cross-platform rules engine to control validation and data entry on both the client and server; I integrated the rules engine into the GUI framework the team constructed.

### **Supply Chain Management System**

#### **BP Integrated Supply and Trading**

**Mar 2003 - Oct 2003**

- ▶ Development - .Net and C#, Windows Forms, ASP.Net Web Services
- ▶ Deployment - Windows, IIS, SQL Server
- ▶ Tools - Visual Studio 2003 and Resharper, CruiseControl, NAnt, NUnit

Within a large team I built an application to manage the client's supply chain for a variety of petroleum products stored at terminals throughout the UK and Europe. The application provided a Windows Forms front-end with a hierarchical grid displaying supply and demand estimates, re-estimates and actuals for the different products stored at each terminal.

The application was deployed to users in offices throughout Europe and communicated with a web service interface in front of the SQL Server database hosted at BP IST's UK data centre.

To simplify deployment we implemented a self-upgrading process which pre-dated ClickOnce. The application was also capable of operating in an off-line capacity to allow users to continue to work in the event of a network outage.

### **Business Agility**

**Jan 2002 - Mar 2003**

This was a consultancy focused on implementing packages such as Chordiant and SeeBeyond. Most of my time with the firm was spent working on a project in San Antonio, Texas with USAA, a large financial services company serving the US military.

USAA were primarily interested in using Chordiant's workflow component and I carried out several prototypes for them. At the time this was an early stage product and the Chordiant developers were keen for my feedback on real-world usage. The client staff were keen to put it through its paces and I communicated between the client and developers on requirements for the product. At USAA's request I put together a one day training course on the workflow package and conducted training sessions which were received with positive feedback.

## Experience continued

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### **Cards Etc**

**Sep 1998 - Sep 2001**

- ▶ Development - C and Tuxedo initially then Java and J2EE
- ▶ Deployment - Windows, Unix, Weblogic, Oracle
- ▶ Tools - Eclipse, Ant

Cards Etc was a software house building a smartcard management system for multi-application smartcards using MULTOS or JavaCard technology. When I joined this start-up company it was less than 30 people in size but had grown to 100+ by the time I left to work in the UK.

Initially I was focused on development in C using the Tuxedo transaction processing monitor. We migrated to J2EE when it became a viable platform for implementing server-side systems. I worked closely with the chief architect to develop a framework within which to build the rest of the application. I developed a web interface layer that used XML and XSLT to allow developers to author screens in XML which were rendered into JSP. I also worked closely with the chief architect to prototype new functionality around the cryptography services and low-level interfaces with smartcards.

In addition to my development activities I also helped grow and mentor the company's development team through recruitment and team leadership. I also consulted at some of the company's largest clients on critical short-term projects and also represented the company at industry conferences.

### **PricewaterhouseCoopers**

**Jan 1997 - Sep 1998**

- ▶ Development - C, Tuxedo, Powerbuilder
- ▶ Deployment - Windows, Unix, Microsoft SQL Server
- ▶ Tools - Powerbuilder, Microsoft Visual C

My first project post-graduation was developing an extended vehicle warranty management system for Toyota Finance Australia. In addition to development I also took on duties as DBA for the development team. Towards the end of my involvement with the project I prototyped integration with a third-party credit scoring application for a new leasing system that was being built for the client.

## Education

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**Master of Applied Finance and Investment**

Kaplan Professional

**May 2007 - present**

**Diploma of Financial Markets**

FINSIA (Financial Services Institute of Australasia nee the Securities Institute of Australia)

**Jan 2005 - Jun 2006**

Through completing this course I have achieved the requirements for ASIC PS146 compliance rules for giving advice in derivatives and securities.

I am also a Senior Associate member of FINSIA.

**Bachelor of Information Technology**

University of Technology Sydney

**1994 - 1996**

## Training and Workshops

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**Commodity Structured Products**

Financial Markets Training UK

**May 2009**

**Commodity Markets Overview**

Financial Markets Training UK

**March 2009**

**Unit Trust Administration**

FINSIA

**March 2007**

**Thinking Tools for Software Development Leaders**

Poppendieck LLC

**February 2007**

**QuickStart Process Induction**

ThoughtWorks

**June 2006**

**Guerilla.NET**

DevelopMentor

**April 2003**

## References

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Available on request.