

# Darren McDonald

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I have analysed, designed, developed and supported business applications for over twelve years.

My experience includes:

- Client and server side Java
- Front Office FX
- Front Office Fixed Income

I have held a number of positions including Senior Developer and Technical Specialist.

## Qualifications

Bachelor of Applied Science in Computer and Information Science.

University of South Australia.

Graduated in 1995 with a credit/distinction average.

## Skills Summary

Business Areas	Foreign Exchange Fixed Income Funds Management Equities	5 years 4 years 1 year 1 year
Languages	Java (J2SE and J2EE) C/C++	10 years 3 years
Methodologies	Extreme Programming (XP) Agile Rational Unified Process (RUP)	2 years 1 year 1 year
Databases	Sybase Oracle	10 years 2 years
Middleware	CORBA Tibco	2 years 1 year
Application Servers	WebLogic	5 years
Web Servers	Apache Tomcat Jetty	3 years 2 years 1 year
Development Tools	Eclipse IntelliJ IDEA NetBeans	4 years 2 years 1 year
Modelling Tools	Rational Rose TogetherJ	1 year 1 year
Configuration Management Tools	Perforce, Clear Case, CVS, Visual Source Safe	12 years

## Professional Experience

**Lehman Brothers**  
Senior Developer (Contract)

**FX and Interest Rate Derivatives**  
May 2006 – present

Technology Snapshot	J2SE (Swing, JDBC) Server Side Java (JMS, Spring) Eclipse Sybase Microsoft Windows XP and Linux
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I currently work for Lehman Brothers on the **FX and Interest Rate Derivatives** project in London. In this role I am responsible for working on the **Swing** front end and associated back end services.

The application is used by **over 200** users (traders, sales people and middle office) world-wide. The application is used to:

- Price Fixed Income Derivative trades
- The capture and STP booking of trades
- Show current risk exposure of booked trades

The front end communicates with C++ servers using **JMS** (EMS).

I have been responsible adding new functionality as requested by traders.

I have also been involved in re-engineering the system, moving business logic out from the GUI and into a server-side **spring** based layer.

**Bank of America**  
Senior Developer (Contract)

**FX Electronic Trading**  
September 2004 – May 2006 (1½ years)

Technology Snapshot	J2SE (Swing, RMI, JDBC) J2EE (EJB, JMS, JSP) Eclipse WebLogic Tibco RV Oracle Microsoft Windows 2000 and Red Hat Linux Agile XP
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I worked on the **FX Electronic trading** project for Bank of America in London. I had **primary** responsibility for the development of GUIs used by traders for **price origination** and **distribution**.

The GUIs were developed in **Swing** with particular attention paid to high performance (high message through-put and low latency)

In developing the GUIs I **introduced** some **innovative** open source **technologies**.

As part of the development a **lightweight framework** was produced and used by other sub-projects.

I was also involved in the **prototyping** of GUIs for a new FX Options project.

The project was managed using an **Agile** methodology. Numerous **XP practices** were adopted including; user stories, TDD (Test Driven Development) and Pair Programming.

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## Credit Suisse First Boston

Senior Developer (Contract)

## FI Electronic Trading

May 2001 – September 2004 (3½ years)

Technology Snapshot	J2EE (EJB, JMS, JSP, Servlets) J2SE (Swing, RMI, JDBC) C/C++, Perl Sybase WebLogic XML Microsoft Windows 2000 and Sun Solaris
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I worked for the Electronic Trading development team in London. This team developed the **core Electronic Trading** platform for **Fixed Income**.

The system was developed and deployed worldwide. It runs **24/6** across three locations in London, New York, and Tokyo. Products traded are Government Bonds, Corporate Bonds, Emerging Market Bonds, Repos and FX. The system interfaces to external client trading systems and internal dealer systems. The external systems include Bloomberg, TradeWeb, FXAll, MarketAxess and PrimeTrade.

I was responsible for the **development, maintenance** and **support** of **all aspects** of the system.

Components I had **primary responsibility** for were:

- **TradeWeb** trading and pricing interface for all European products (Java)
- Government Bond **price feed** (C++)
- System monitoring components (JSP)
- **Swing** based system maintenance GUI
- **Historical reporting** database (Perl/Sybase)
- In-house WebLogic **load balancing** infrastructure

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## Deutsche Bank

Senior Analyst/Programmer (Contract)

## Application Reporting

September 2000 – March 2001 (½ year)

Technology Snapshot	J2EE (JSP, Servlets, JDBC) Oracle Apache and Tomcat
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I worked for the Application Reporting and Development Team at Deutsche Bank in London.

- I worked on a new Intranet portal for middle-office Money Market and Equity trading areas
- My role was to **architect** and develop web based security infrastructure for the site

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## Qantas Airways

Lead Developer (Contract)

## e-Commerce Group

October 1999 – July 2000 (9 months)

Technology Snapshot	J2EE (JSP, EJB, Servlets, JDBC) Oracle WebLogic UML, RUP
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Qantas is Australia's major domestic and international airline. I worked for the e-Commerce group, redeveloping the Internet site for the airline, <http://www.qantas.com.au>.

- I participated in the **architectural** design
- I worked on the flight schedule and frequent flyer components
- I helped write the **EJB** layer that communicated with the legacy mainframe system
- I **mentored** junior staff

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**Perpetual Fund Services**

Java Analyst/Programmer (Contract)

**Middle-tier Development Team**

November 1998 - October 1999 (11 months)

Technology Snapshot	Java (JDBC, Swing) CORBA Sybase
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Perpetual is a large Australian Fund Manager. I worked within a small group of highly skilled developers and architects, designing and implementing middle-tier infrastructure and services.

I developed a **Swing** GUI for reconciliation of front office trades with the back office HiPortfolio system.

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**Macquarie Bank**

Java Technical Specialist

**Development Infrastructure Group**

February 1997 – November 1998 (1½ years)

Technology Snapshot	Microsoft Windows NT and Sun Solaris Java (AWT, Swing, JDBC) CORBA HTML Sybase
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Macquarie Bank is Australia's premier investment bank. I was one of the first Java programmers to be employed by the bank.

I worked for the Development Infrastructure Group. This group is responsible for **R&D**, and providing programming support for all development teams within the bank.

- I was the primary **Java technical specialist** within the team.
- It was my responsibility to provide the Java development infrastructure for the bank.
- I helped develop a pilot project using **Java** and **CORBA**. This was the **first time** these technologies were used within the bank.

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**Westpac**

Graduate Programmer

**FX Dealing Room System**

January 1995 – February 1997 (2 years)

Technology Snapshot	OS/2 C and C++ Sybase
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Westpac is one of Australia's largest retail and investment banks. The project team I worked for was responsible for the development and maintenance of the **Foreign Exchange Dealing Room** system.

I developed and maintained software for all aspects of the system including;

- Client Deal Capture GUIs
- Middle-tier pricing and position keeping servers
- Database schemas and stored procedures
- End of day reporting