

Curriculum Vitae

Daniel Bardsley, Software Engineer

Summary

- A high quality software engineer with expert experience in agile methodologies, test driven development and a proven track record delivering high performance / high stability software.
- A demonstrated ability to quickly adapt to and learn new software applications, programming languages, operating systems and technologies in short time frames and high pressure environments.
- Extensive domain knowledge and experience within the financial industry developed whilst working for large multinational corporations.
- Routinely develops strong professional relationships whilst working directly with clients and customers.

Experience

BJSS, Large Global Bank

Software Engineer

April 2012 – May 2012

Started a project to deliver an FX trading platform before budgeting decisions prevented the project continuing. The rich container based GUI encompassed numerous complex custom controls and streamed live price updates to the user. A high quality proof of concept was delivered to the customer within an extremely tight timeframe.

Technologies: C#, .Net, WPF, Java.

BJSS, Multinational News Agency

Software Engineer

August 2011 – March 2012

Worked as team lead whilst developing a rich execution management GUI for a global data delivery platform.

- A high performance WPF data blotter driven by a pre-existing Java back end. Communication between front and back ends was handled using a custom XML based communication layer.
- A highly modular architecture interconnected using the Reactive Extensions framework. The modular design allowed for simple switching between mock and live services.
- Functionality allowing for the creation of complex queries over the tabular data.
- An agile approach to development allowed rapid feature development and a short feedback loop between engineers and product management

Technologies: C#, WPF, Java, Reactive Extensions

BJSS, Large Investment Bank

Software Engineer

September 2008 – July 2011

Worked directly with the algorithmic trading development team for a large investment bank. Major contributions include:

- The creation of an extensive, near-realtime, performance analytics system built on the Spotfire business intelligence platform.
- Developed a rich GUI interface providing resilient multi-host

deployment, realtime status monitoring, configuration version management and debugging tools for the trading engine software.

- Developed a high throughput IO journaling system, recording all interprocess messaging for the trading software stack.
- Helped deliver a customisable post trade reporting platform delivering complex reports directly to the customer.
- Provided out of hours technical support for the trading engine to ensure continuous uptime and smooth system operations.

Technologies: C#, .net, SQL Server, TIBCO Spotfire

BJSS, Large Investment Bank

Software Engineer

April 2008 – September 2008

Development of feature rich GUI for an algorithmic trading engine for a large investment bank, paying particular attention to performance improvements and code optimisation. The developed GUI represented the clients primary interface to their high frequency algorithmic trading engine.

Worked as part of the performance team responsible for optimising application code using .net profiling techniques and ensuring stability through extensive unit test coverage. Owing to the projects adherence to agile development methodology the team was able to successfully deliver iterative project updates to production in minimal timeframes. Extensive knowledge of automatic build and testing tools significantly aided the agile process.

Technologies: C#, .Net, WinForms, dotTrace, CruiseControl, Perforce, NUnit, SQL Server

Technical Experience

Responsibilities

Program design, implementation, architecture and front line client support.

Operating Systems

Windows, Linux, Unix

Languages

C#, C++, Java, SQL

Databases

SQL Server

Other Products

.NET, WPF, WCF, WinForms, Reactive Extensions, OpenGL, Visual Studio, 3D Studio Max, Perforce, Subversion, TeamCity, SONAR, TIBCO Spotfire, TIBCO Rendezvous

Business Experience

Sector(s)

Financial

Business Domain

Banking, Equities Trading, Data Visualisation

Success Story

Development of a performance critical sub-system for a large algorithmic trading engine. Outperformed the previous implementation by an order of magnitude in under the allocated development period.

Education

Qualifications

- **PhD Computer Science,**
University of Nottingham
A Practical Framework for 3D Reconstruction and Its Applications
2008
- **BSc in Computer Science,**
University of Nottingham
Modules in Advanced Computer Graphics, Computer Vision,
Advanced Computer Communication, Multimedia and Virtual Reality,
Computer Security, Artificial Intelligence, User Interface Design,
Concurrency, Database Systems; Graduated with 2:1 Honors Degree
in 2004