

## Technical Expertise

- Programming Language: C#.NET, Java, VB.net, VBA, Python, LINQ, Lambda.
- Framework: .Net 3.5,4.0 and 4.5, WCF, WPF, Caliburn, PRISM, WF 3.5&4.0
- Automation Testing: MSTest, NUnit, EasyMock, DbUnit, UI Automation Verity.
- Database & Web: Sybase, Oracle, IBM DB2, SQL Server, XML, IIS, MSMQ, Window Service
- DevEnvironment: Visual Studio, Eclipse, SVN, Perforce, Jenkins, Jira.

## Employment

Associate Vice President	CITI Group	July.2013–Present
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### GXS Big Data Report System

As the GXS UI team lead, I led my team members to design, develop and maintain the GXS UI. GXS is a big data report system which is widely used by Credit, Primary Finance and Commodities. The front-end is built on WPF, Caliburn, DevExpress etc. The back-end is powered by Hadoop, HIVE etc. The reports are written in Clojure.

#### Key Achievements:

- Managed GXS UI customization work for Commodity and Primary Finance groups.
- Refactored Credit Risk Real Time report to solve several tough issues in GXS UI for a very long time and improves the performance.
- Refactored the UI framework to make integration tests available.
- Managed the UI Desktop and Xbap version release in UAT, Beta and Prod environment.

### Shade UI Language

As the Shade project lead, I managed 2 developers in Toronto and 3 developers in Shanghai to develop an easy-use UI script language. Shade is a specialized UI markup language for financial industry. Developers can quickly write a UI script and deploy it on Shade Engine. Shade Engine interprets the script, builds WPF view, and then binds the view with data and business logics.

#### Key Achievements:

- Designed and implemented data binding mechanism in Shade Engine.
- Designed and implemented call back mechanism to handle shade UI events.
- Designed and implemented an auto integration test framework.

### Correlation Project in Structure Credit Team:

I part-time designed and developed the front-end of correlation project. Traders use this solution to calculate CDO and index correlation and risk.

IT Associate	Morgan Stanley	Jun.2012–Jul.2013
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### ECSTRA Compensation Management System – Ver. 3.0, Ver. 4.0

Designed, developed and maintained a C# and .Net based system, ECSTRA, which is used to manage Morgan Stanley global employees' compensation. The front-end is built on WPF, PRISM, Infragistics, Unity 2.1 and MVVM. The back-end is developed on WCF, Enterprise Library 5.0, Workflow Foundation 4.0, Unity 2.1, Message Queue, Crystal, etc.

#### Key Achievements:

- Designed and developed the cash award termination enhancement. Integrated off-line and on-line termination treatment and simplified the process.

- Refactored the server tier by making use of Unity in WCF services which introduced dependency injection pattern and loosely coupled component design into the server tier.
- Made use of Workflow Foundation, LINQ and Rule engine to redesign and develop equity award termination policies which resulted in an extendable, flexible and policydynamic loaded module.
- Developed MS Test Infrastructure.
- Supported (Level 3) HR Compensation Prod environment and UAT environment.

<b>Research Assistant</b>	<b>University of Ottawa</b>	<b>Sep.2010 – May.2012</b>
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- Developed a new automation test case generator which can generate test cases following software operational environment, as well as a software reliability/availability estimator for reliability testing.

<b>Software Engineer II</b>	<b>Applied Materials</b>	<b>Jul.2007– Jul.2010</b>
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Common Framework – Ver. 1.0

Designed, developed and trained a C# based UI and Server development framework for AMAT's all automation manufactory solutions. By plugging in business logics, other teams can build up a solution for semiconductor and solar energy panel manufactory in a very short time. The main techniques used in project include .Net 3.5, WPF, SCSF, PRISM, Enterprise Library, Silverlight, WCF, guidance package and code generation.

Key Achievements:

- Designed and proposed a rich client light server prototype to architect. Improved the real-time manufacturing automation system performance and reduced maintenance costs.
- Made use of composite pattern and reflection to design and develop Query-Service module which resulted in a very flexible, extendable, SQL dynamic loaded server.
- Led a team to develop a UI-Framework ver. 2.0 prototype based on WPF, PRISM and Silverlight.
- Developed Test harness and NUnit Infrastructure.
- Trained and supported other teams to develop SmartFactory based on Common Framework.

### Publications:

- [\*"Evaluating Reliability-Testing Usage Models"\*](#),  
Bo Wan, Gregor Bochmann, Guy Vincent Jourdan, IEEE COMPSAC 2012.  
Acceptance Rate 17%
- [\*"Improved Usage Model for Web Application Reliability Testing"\*](#),  
Gregor Bochmann, Guy Vincent Jourdan, Bo Wan, 23rd IFIP Int. ICTSS'11.  
Acceptance Rate 33%

### Education

<b>Master of Science</b>	<b>University of Ottawa, Canada</b>	<b>Sep.2010 – May.2012</b>
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Major: Computer Science.

- GPA: 4.13 of 4.00
- Thesis: Improved Usage Model for Web Application Reliability Testing.

<b>Bachelor of Technology</b>	<b>Xi'an Jiaotong University, China</b>	<b>Sep.2003– Jul.2007</b>
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Major: Software Engineering, Minor : Accounting

- GPA: 84.2% / 87 %

### Honors and Achievements

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| • Research Assistantship (University of Ottawa)            | 2010 – 2012 |
| • \$10,000 Bonus and 3% base salary raise (Morgan Stanley) | 2012 – 2013 |
| • \$5,000 base salary raise (CITI Group)                   | 2013 – 2014 |
| • \$2,000 base salary raise (CITI Group)                   | 2014 – 2015 |