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BO.WAN

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TECHNICAL EXPERTISE

- Programming Language: C#.NET,ASP.net, HTML5, Java Script, Java, PL/SQL, Python, LINQ, Rx.
- Framework: .Net 3.5 to 4.5, MVC 4, WCF, WPF, PRISM, WF 3.5&4.0, EF,
- Automation Testing: MSTest, NUnit, EasyMock, DbUnit, UI Automation Verity.
- Database & Web: Sybase, Oracle, IBM DB2, SQL Server, XML, IIS, MSMQ, Window Service
- Dev Environment: Visual Studio, Eclipse, SVN, Perforce,Jenkins, Jira.

WORK EXPERIENCE

Senior Developer (AVP) **CITI Group** **July.2013–Present**

GXS Big Data Report System

As the GXS UI owner and team lead, I led my team members to design, develop and maintain the aps.net GXS UI client and desktop GXS UI client. GXS is a big data report system which is widely used by Credit, Primary Finance and Commodities. The front-end is built on WPF, WCF, Caliburn, DevExpres, ASP.net, MVC4 and Entity Framework etc.

Key Achievements:

- Designed and developed APS.net GXS UI Client that users can view the report on PC and mobile devices.
- Managed GXS UI customization work for Commodity and Primary Finance groups.
- Refactored Credit Risk Real Time report, Designed and developed OLAP report and real-time Risk pivot grid report.
- Refactored the UI framework to make integration tests available.
- Managed the UI Desktop and APS.net version release in UAT, Beta and Prod environment.

Correlation of Structure Credit:

As the Correlation front end owner, I designed and developed credit correlation UI client by making use of WPF, WCF, RESTful , Caliburn, DevExpress and EMS etc.

Key Achievements:

- Design and developed the whole client from nothing to a robust, user-friendly and high-performed trades work system.

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 and call back mechanism to handle shade UI events.
- Designed and implemented an auto integration test framework.

IT Associate **Morgan Stanley** **Jun.2012–Jul.2013**

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 policy dynamic loaded module.
- Developed MS Test Infrastructure.
- Supported (Level 3)HR Compensation Prod environment and UAT environment.

Software Engineer II **Applied Materials** **Jul.2007– Jul.2010**

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 Smart Factory based on Common Framework.

Publications:

- *"Evaluating Reliability-TestingUsage Models"*,
  Bo Wan, GregorBochmann, Guy Vincent Jourdan, IEEECOMPSAC 2012. Acceptance Rate 17%
- *"Improved Usage Model for Web Application Reliability Testing"*,
  Bo Wan, GregorBochmann, Guy Vincent Jourdan, 23rd IFIP Int. ICTSS'11. Acceptance Rate 33%

Education

Master of Science **University of Ottawa, Canada** **Sep.2010 – May.2012**

Major:Computer Science.

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

Bachelor of Technology **Xi'an Jiaotong University, China** **Sep.2003– Jul.2007**

Major: Software Engineering, Minor : Accounting

- GPA: 84.2% / 87 %

Honors and Achievements

- 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