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Enterprise Application Developer 3.5
ASP.NET Developer 3.5
Windows Developer 3.5

SUMMARY

Credentialed actuary with experience in object-oriented analysis, design, and programming for financial services, employee benefits, and insurance organizations. Feels strongly about the existence of a close relationship between business and technology. Passionate about bringing finance, mathematics, and technology to bear on solving difficult business problems. Experienced in the modeling and management of financial risk and contingent events.

EXPERIENCE

October Three LLC, Chicago, Illinois *Software Developer*

2010 - Present

- Currently developing a web based benefits administration system. Based on the ASP.NET MVC framework, the system architecture supports clean separation of concerns and test-driven development.
- Developed a web based application to model various defined benefit pension designs and generate the documents necessary to begin the plan.
- Developed a web based application to model the financial ramifications of converting a traditional IRA to a Roth IRA.

J.P. Morgan, Chicago, Illinois *Actuarial Software Developer, Asset Management*

2006 - 2010

- Developed a web based application to deliver combined DB (pension) / DC (401(k)) benefit statements to participants.
- Developed an interface to our existing DB administration system to support payments from the pension trust. This interface was developed for, and is currently being used by, a major provider (a large bank) of pension trust accounting services to manage payments from the trust. Our DB administration system reports payment transactions, using a proprietary scheme defined by the trust provider, to the trust provider's administration system. The provider then makes payments to participants from the trust. This interface was developed as an enhancement to our VB based desktop administration system.
- Developed a suite of web based models for qualified defined benefit pension (cash balance) and defined contribution (profit sharing, 401(k)) retirement plans. These models provide the owners (high wealth individuals) of small to medium sized companies with the financial tools needed to maximize the contribution levels to their retirement plans (defer current compensation), subject to the constraints of providing a meaningful retirement benefit to their employee's, minimizing their total retirement plan expenses, and passing a variety of Internal Revenue Code tests (e.g., minimum participation (401(a)(26)), coverage (410(b)), rate group (401(a)(4)), average benefit percentage, gateway percentage). These tools are written in the C# programming language and are published on the web as .NET applications.

Hewitt Associates, Lincolnshire, Illinois

1992 - 2006

Actuarial Software Developer, Actuarial Research & Development

- Developed a tool that measures the relative “value” and competitiveness of one company benefit programs against others in their peer group. Results are charted by total program value and employer-paid value for Retirement, Life, Disability, Health Care, Time Off, etc. This is written in the C# programming language and is published on the web as a .NET application.
- Worked on development of a tool designed for employees to model their postretirement medical costs, so they can make informed decisions about what they need to save in order to cover these costs. Employees enter their own information and assumptions, so the results are fully customized to their situation. This was being written in the C# programming language and was to be published to the web as a .NET application at some future date.
- Member of a team that developed a tool that compares the relative risk of owning retirement programs with those of other companies. This was done by first determining the ratios of retirement plan liabilities or costs to financial measures like revenue or net income. The user is then able to compare their results to those of selected companies or industries. This is written in Excel and the VBA programming language and is published on the web as a Citrix based application.
- Member of a team that developed a tool to enable plan sponsors to compare their current retirement plan design to alternative designs. Specifically, this tool enables the plan sponsor to compare the level of benefits, the benefit accrual pattern, and the income replacement provided by a company's existing retirement program to a spectrum of retirement plan designs, including defined contribution, 401(k), cash balance, pension equity, and simple final average pay. The user has the ability to modify assumptions and parameters of the proposed design. This is written in Excel and the VBA programming language and is published on the web as a Citrix based application.
- Member of a team that developed a tool to forecast key pension plan valuation results under numerous future economic scenarios. Using Microsoft HTML Help Workshop, I also added a comprehensive, context sensitive help system to this application. One typical use for this application is to model the cost impact of alternative discount rates and asset returns. This is written in Excel, VBA, and the PL/I programming language and is published on the web as a Citrix based application.
- Developed and maintained automation add-ins (i.e., an XLL (or DLL) used to automate Excel in response to user events and also provide additional application specific functions to Excel), and XLA functions used to support the development of Hewitt's Excel based tools.
- Designed and implemented the DB/2 database that was the foundation of our effort to develop a PC based actuarial valuation system using .NET technologies.
- Developed and maintained Hewitt's mainframe financial projection system. This was the system Hewitt used to value and project liabilities and costs for FAS 87, 106, and 112.
- Supported Hewitt's actuaries in the use of their systems and technology. This involved enhancements to current systems, teaching on-site training sessions, client support, etc.
- Maintained and administered all of the client-facing applications for the Actuarial group at Hewitt.
- Developed a cash flow system for a major Hewitt client. This system projects monthly investment earnings, transfers, and payouts among qualified and non-qualified retirement accounts for active and inactive participants.
- Participated in college recruiting functions for Hewitt.

SKILLS

- ASP.NET, ASP.NET MVC, ADO.NET, JSON, XML, JDBC, Servlets, JavaServer Pages (JSP), Enterprise JavaBean technology, Web services, Visual Studio, Excel, Word
- Languages: C#, Java, VB (VBA)
- Scripting: Ajax, AngularJS, Bootstrap, JavaScript, jQuery, PowerShell, Prototype, script.aculo.us, Perl, Python
- Mark Ups: CSS, HTML, XHTML, DHTML
- Database: SQL Server & T-SQL, Oracle & PL/SQL, Access, DB2
- Modeling: UML
- Source Control: Visual SourceSafe, SourceGear Vault

EDUCATION

M.S. Computer Science

DePaul University, Chicago, Illinois

- Graduated w/distinction, 4.0 GPA
- Concentration in Theory / Software Engineering

B.S. Mathematics

Illinois State University, Normal, Illinois

- Minor in Applied Computer Science

ACCREDITATIONS

Associate of the Society of Actuaries (ASA)

Society of Actuaries

EA-1 Principles of Pension Valuation I

Society of Actuaries

Microsoft Certified Professional Developer (MCPD)

Microsoft

Web Development with Ajax Technologies Certificate

DePaul University

.NET Developer Certificate

DePaul University

Fast Track to J2EE Developer Certificate

Learning Patterns

Fast Track to Java Developer Certificate

Learning Patterns

See my website for additional details => <http://www.rabjr.com>