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## Summary

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I am a developer/architect with more than 15 years of professional software development experience (over 25 years of development experience overall) using a wide range of cutting-edge technologies and have shown myself to be a forward-thinking influence in the environments I have worked in. Over that period, I have a diverse and extensive record of accomplishment in projects ranging in size from small applications to large-scale enterprise-class systems, as both an individual developer and lead developer and architect. I have significant experience in many aspects of management including product procurement, resource acquisition and retention, project management and peer review. I have a demonstrated ability to lead teams and make them better through mentoring, direction-setting and positive interpersonal interaction. I am what most consider a valuable generalist with an exceptionally wide breath of knowledge and the proven ability to bring that knowledge to bear on problems often considered intractable by others and devise novel solutions that ultimately lead to successful conclusions to any project with which I am involved.

## Skills, Abilities and Certifications

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### High proficiency/expert skills

Ajax/Rich Internet Application (RIA) Development, Apache Ant, Apache Tomcat, CSS, Eclipse/RAD, HTML/XHTML, J2EE, JUnit, Java, JavaScript, Object-oriented design, Paint Shop Pro, Struts, Usability/Human Factors, Web framework architecture, Adobe AIR, VBScript, Windows Mobile/Windows CE Development, PowerBASIC, QuickBASIC, ExtJS, DWR, webOS development, Microsoft Office (including Visio), Test-Driven Development, Subversion

### Proficient skills

Active Server Pages (ASP), All flavors of Windows, C/C++, Crystal Reports, Graphic Design, IBM WebSphere, IBM Web Templates (IWT), IIS, Microsoft Office Development, Network Engineering, Oracle, PC Maintenance, PHP, Project Management, SQL, SQL Server, SSL, TCP/IP, Visual Basic, Android Development, Visual Basic for Applications (VBA), Visual C++, Visual FoxPro, MySQL, DOJO, Relational database design, Web Services/Service-Oriented Architecture (SOA), Project Management (including Agile methodologies), SCRUM, CVS, Corona SDK, Spring framework

### Some proficiency/experience

.Net, Assembly, Business Objects, CICS, COM/ActiveX Development, Easytrieve, Flash, JCL, Unix/Linux, Mercury LoadRunner, Novell, Novell NetWare, Portal Technology, TSO/ISPF, Unix/Linux, XSLT, Flex, Business process engineering, YUI, Microsoft Project, iOS Development, PhoneGap

### Certifications:

- \* HFI (Human Factors International) Certified Usability Analyst (CUA)
- \* Sun Certified Java Programmer (SCJP)
- \* Microsoft Certified Solutions Developer (MCSD)
- \* Microsoft Certified Professional (MCP)
- \* CompTia I-Net+ Certified
- \* CompTia A+ Certified
- \* Certified Novell Administrator (CNA)
- \* Certified Internet Webmaster (CIW) Associate
- \* PreVisor Certifications: Computer Industry Knowledge, XML, WWW Concepts, Java, Internet Industry Knowledge, Internet Concepts, HTML Programming, Computer Configuration And Maintenance, Active Server Pages Programming, Web Programming, Internet Security, E-Commerce Concepts Analysis, Object-Oriented Developing, Network Technician, IIS Administration, Computer Electronics, Visual Basic Programming, Visual FoxPro Programming, High IT Aptitude, Computer Technician, Windows Administration, C++ Programming, Assembly Language, Computer Technical Support, Office Development and numerous others.

## Work Experience

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### Regular full-time work

#### **Architect/Developer – BNY Mellon, November 1996 – Present**

- \* IIM – This application was custom built for a potential client and was essential in finally winning that business. I was involved in every aspect of this project from requirements gathering to initial prototyping, interfacing with the client, designing the architecture and implementing the code. Primarily though, I served as project manager for the technical side of the project. It was necessary for me to step away from actual implementation to a large degree to achieve success against deadlines that were seemingly impossible, but which I ultimately met.
- \* Fund Parameters - This application's function is to set up and maintain fund configuration information for the sub-accounting line of business. It is a robust RIA utilizing ExtJS for front-end development and DWR for server-side communication with Java on the server. I served as technical lead in charge of all aspects of application design including UI, database and batch processing design. I was a key developer day-to-day as well as aiding in business analysis from start to finish. I oversaw a team of multiple developers while liaising with the business and analysis team to deliver this project successfully, making an exceedingly tight deadline.
- \* Web Image - This application was a recreation of our core imaging application, a Visual Basic application, as a Java-based RIA. It required a great deal of analysis and design in order to achieve desired efficiency gains as well as ensure that all existing functionality was still present while improving on areas where there were some shortcoming in the existing application. Technologies employed include ExtJS, DWR, web services and Snowbound imaging platform. This project was the first in our company to employ an Agile methodology (SCRUM) and was a success in that regard and now serves as a model for future projects. My input played a large role in deciding to pilot Agile in the first place as well as keep in on-track throughout. In my capacity as lead architect and developer I not only played a key role in implementation but also oversaw the development team throughout and help them achieve success through significant mentoring.
- \* Operational Desktop - This application is an advanced RIA utilizing the latest Ajax techniques backed by a service-oriented architecture that aggregates numerous application “modules” into one integrated UI and back-end infrastructure. During the course of this project, I defined standards that that are now standards across the organization for RIA development, including usage of libraries such as Ext JS and DWR, as well as guidelines for application architecture and UI construction. During this project, I focused primarily on UI development and usability. A big part of my job here was serving as mentor to an approximately 15-person team as well as aiding in resource management decisions and setting overall project direction and designing the architecture.
- \* Universal Transfer of Assets – I was the lead architect and developer of this Java-based application utilizing Struts that is a system for tracking asset transfer requests. This system includes complex print output utilizing a custom XML report template processor, an abstraction layer that allows for transparent communication with numerous back-end systems (mainframe-based and micro-based), J2EE security, and a very rich web-based GUI environment for end users. This project involved contributing to business analysis, detailed specification writing and coordination of team members to implement those specifications, which I was responsible for producing. This application runs on WebSphere in a clustered environment and uses Oracle for its data store.
- \* Complex Corporate Actions - This is a web-based application fronting CICS-based application components that was the first mainframe-to-web project successfully completed at the time for processing complex investment holding modifications. I performed detailed business analysis, system design and programming using a custom web framework as well as managed a team of developers to complete this critical initiative.
- \* IPAccess - This is a high-traffic mission-critical mainframe-to-web integration system. This was a complete life-cycle effort involving extensive requirements and specifications documentation, team coordination, project management, quality assurance testing and very advanced technological development (at the time) both client and server-side including early Ajax techniques, JavaScript, IWT, XML and a SOA approach to core logic.
- \* PIAS – I designed and implemented this Windows-based document archiving system that saved the company in excess of \$35k per month for a number of years. At the same time, it improved on the retrieval capabilities of the system it replaced. This was a Visual Basic-based application with a Microsoft SQL Server data store.
- \* Intranet – I championed creation of an Intranet in 1996, before such a thing was common, and won the backing of our management. This lead to me solely designing and developing the first Intranet for our company which included an online purchase request system, HR documentation library, self-maintaining Novell Directory Service-based phone list, customizable portal, online timesheet entry and workflow management tools.

## Other work

### **Etherient (formerly Omnytex Technologies)**

Etherient is a software development company I founded that produces applications focused on mobile and cloud-based computing. We currently have a number of products available for various mobile platforms using technologies including Java, C/C++ and web technologies.

### **Open-source involvement**

I am a big proponent of open-source product usage and someone who has brought open-source to bear on the job to the benefit of the organization. More than that, I have extensive experience with open-source projects including frequent contributions to a number of well-known projects as well as starting and leading a few projects of my own. This experience includes:

- Struts and Apache Tomcat contributor (frequent mailing list contributor)
- Jakarta Commons contributor (some patches accepted and released)
- Developer on the SourceForge Struts project where I have contributed a number of Struts extensions and example applications
- Founder and developer of the Struts Web Services Enablement Project, a Struts extension that allows existing Actions to be exposed as simple Web Services without altering the existing code
- Founder and leader of the Java Web Parts project, a collection of Java-based web application components
- Leader of the DataVision project, a reporting tool similar to Crystal Reports or Business Objects
- Project manager and developer for an open-source project to create a Commodore 64 emulator for the Windows Mobile platform (the first working one of its kind)

### **Published works**

- I am the author of six books: "Practical Ajax Projects with Java Technology", "Practical JavaScript, DOM Scripting and Ajax Projects", "Practical DWR 2 Projects", "Practical Dojo Projects" and "Practical Ext JS Projects with Gears", "Practical Palm webOS Projects"
- I have authored a number of independent articles: "Ajax using XMLHttpRequest and Struts", "Reporting For The Web with DataVision", "The AjaxParts Taglib from Java Web Parts: AJAX for Java Developers the Easy (yet powerful) Way!"
- I have written two articles for the Palm Developer Network on webOS development: "webOS Wiki: The merger of knowledge, mobile and cloud computing", "Far Out Fowl: An Exercise in webOS Canvas Game Development"
- I have written two articles for JSMag on various topics in JavaScript and client-side development: "webOS: Palm's Game-Changing Mobile Operating System", "Cross-Domain AJAX with Pure JavaScript"

### **Certification validation and development**

I have authored five certification exams for PreVisor on JavaScript 1.6, JEE6, HTML5, CSS3 and Android development. I was a validator for a number of certification exams including ones on Java6, JEE, ASP.Net 3.5, ASP.Net 4.0 and iOS development.

### **Public speaking/technical presentations**

I occasionally give presentations to various groups on technical topics including RIA techniques to both the Philadelphia Java User's Group and Albany Java User's Group. I was a featured speaker at the 2010 ExtJS conference. I co-hosted two sessions at the 2007 and 2008 Ajax Experience conferences on DWR and Ajax with Struts.

### **Teaching experience**

I constructed the curriculum for and taught two 40-hour long classes on RIA development at BNY Mellon. Each class had approximately 20 students who quickly got up to speed in RIA development for upcoming projects.