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Software Architect with extensive experience across all aspects of software engineering in government, commercial, and educational environments. Currently researching advanced Web software engineering development and testing approaches.

Security Clearance

Information Available Upon Request

Education and Training

PhD in IT (concentration in software engineering) George Mason University , Fairfax, Virginia	Expected Graduation 2009
M.S. in E-commerce (3.75 GPA) George Mason University , Fairfax, Virginia	Fall 2003
B.P.S. in Computer Technology (3.75 GPA) University of Mary Washington , Fredericksburg, Virginia	Spring 2002
A.A.S. in Information System Technology (Cum Laude) Germanna Community College , Fredericksburg, Virginia	Spring 2000
Introduction to CMMI Software Engineering Institute , Arlington, Virginia	August 2007

Professional Experience

Software Architect/Consultant (contract) Self Employed	9/2008 to present
<ul style="list-style-type: none">▪ Requirements Analysis: rapid elicitation of software requirements using non-functional prototypes▪ Consulting: providing expert advice for web application initiatives▪ Software Engineering: designing and developing a Java-based Web application using Java Server Faces (JSF), Facelets, IceFaces, Spring, and iBatis frameworks	
Software Architect/Consultant (contract) Georgetown University , Washington D.C.	9/2008 to 12/2008
<ul style="list-style-type: none">▪ Requirements Analysis: elicited software requirements with non-functional prototypes▪ Consulting: provided expert advice for web application initiatives▪ Software Engineering: designed and developed a .NET-based Web application using ASP.NET 2.0 and MySQL	
Associate/Software Architect Booz Allen Hamilton , McLean, Virginia	11/2007 to 8/2008

- Government Customers: worked primarily for government clients including FBI and Millennium Challenge Corporation
- Consulting: provided consulting services for various government clients
- Software Architecture: analyzed and designed various software architectures
- Research and Development: Developed a UML profile for modeling Struts applications and a Model Driven Architecture (MDA) plug-in for Rational Software Architect to transform a Struts Platform Specific Model (PSM) into executable source code.
- Project Management: planned and managed various IT projects including scheduling and resource allocation
- Development: developed, configured, and deployed various components including, but not limited to:
 - Plug-in for Rational Software Architect
 - Struts web components
 - XML Schemas and XML files

Software Architect/Senior Software Engineer

2005 to 10/2007

Imagine One Technology & Management, Ltd., Arlington, Virginia

- Government Customers: worked for numerous DoD clients including Navy Medicine Online, NMIMC, BUMED, M-CAST, NKO, and DEERS
- Software Architecture: analyzed and reported on existing architectures and designed new software architectures and service-oriented architectures utilizing UML 2.0, software design patterns, n-tiered architectures, and object oriented design principles. Utilized a custom designed Web architecture and development approach based on a hybrid of formal and informal techniques from multiple disciplines
- Documentation: generated Analysis Reports, Software Requirements Specifications, Interface Control Documents, Interface Design Documents, Software Design Documents, Test Plans, Test Case Specifications, Whitepapers, etc.
- Software Development: developed Web-based systems (*ASP.NET, C#, AJAX, Javascript, Coldfusion, ASP, Visual Basic, CSS*), system interfaces (*XML, Web Services, XML Schemas, Windows services*), and multimedia/video streaming applications (*Flash, Flash Media Server, Flash Remoting*) for systems such as portal frameworks, online collaboration tools, and custom Web applications using a variety of techniques including prototyping, rapid application development, waterfall model, etc. in *Windows Server 2003* environments running *IIS*
- Training: conducted internal training for development tools, software design patterns, software architectures, development approaches, etc.
- Process Improvement: involved in a company-wide initiative to improve software development processes
- Communication: communicated directly with system stakeholders to elicit requirements and presented recommendations and product demonstrations directly to clients
- Database Development: developed schemas and SQL for multiple DBMS including *Oracle, SQL Server, Microsoft Access, and FoxPro*
- Reporting: generated/modified custom reports using *ASP.NET* and *Crystal Reports*
- Standards Compliance: *IEEE, DOD-STD-2167A, FIPS PUB 140-2, Section 508, DoDAF, etc.*
- Systems Design: designed secure system-to-system interfaces utilizing *VPN, SSH, and SSL* connections while conforming to strict firewall restrictions
- Development Tools: utilized *Microsoft Visual Studio, Dreamweaver, Visual Basic 6.0, Visual Source Safe, SQL Plus, MagicDraw, Microsoft Visio*
- Legacy Applications: analyzed legacy applications, provided recommendations for adaptations/redevelopment, and migrated legacy applications using reverse engineering and custom development techniques
- Team Development: divided and allocated work assignments and contributed in

multidisciplinary development teams

- Dependability: responsible for recovering numerous failing projects ultimately delivering them on time and within budget without sacrificing quality

Web Developer (contract) 2004 to 2005
George Mason University, Fairfax, Virginia

- Web Development: developed various Web applications and Web services using *C#, ASP.NET, Flash Actionscript, Microsoft Access, and XML*

Assistant Webmaster/Senior Web Developer 2001 to 2005
University of Mary Washington, Fredericksburg, Virginia

- Web Development: developed and maintained custom Web-based systems, Web services, and a custom built content management system, using *PHP, ASP, VBScript, Javascript, MySQL, Microsoft Access, XML, SOAP, etc.*
- Animation: dynamic 3D interactive virtual tours using *3D Studio Max, Plasma, Flash, Flash Remoting, XML, and MySQL*

Web Developer (contract) 2003
Breg Environmental, Fredericksburg, Virginia

- Analysis: elicited requirements from client through interviews
- Web Development: developed a custom Web-based application and corresponding content management system using *PHP, MySQL, and DHTML*

3D Graphics Designer/Animator (contract) 2002
Web Equipment, Stafford, Virginia

- Animation: developed a 3D interactive animation using *3D Studio Max and Flash*

Web Developer/Systems Analyst (internship to contract) 2001 to 2002
StaffNet, Fredericksburg, Virginia

- Systems Analysis: worked directly with client to elicit requirements and refine business goals
- Web Development: developed an e-commerce application using *Perl, iHTML, and Microsoft Access* in a *Windows NT* environment running *IIS*

Systems Developer/Analyst 1995 to 2001
Donley Technology, Colonial Beach, Virginia

- Systems Analysis: worked directly with client to elicit software requirements
- Database Development: developed applications for customer order tracking and inventory management
- Web Development: developed multiple Web applications using *Perl and mSQL* in a *Linux* environment using *Apache Web server*
- Report Production: developed dynamically generated reports
- Editing: co-author of "EH&S Compliance Auditing and Tracking Software Report," "MSDS Software Report," and "Environmental Management Information Systems Report"
- Graphics Design: designed logos and graphics for in-house and external clients using *Adobe Photoshop* and *Adobe Illustrator*

Systems Developer/Analyst (contract) 1999

Communication Workers of America, Washington D.C.

- **Systems Analysis:** worked directly with client to elicit requirements and validate system functionality
- **Database Development:** developed a stand-alone system to track member information using *Microsoft Access and Visual Basic*

Experience

Databases

Oracle, Microsoft SQL Server, MySQL, mSQL, Microsoft Access, FoxPro

Languages/Frameworks

ASP.NET, C#.NET, VB.NET, Java, J2EE, Java Server Pages, Java Servlets, Struts, Java Server Faces (JSF), Facelets, IceFaces, Spring, iBatis, Enterprise Java Beans, Flash Actionscript, PHP, ASP, Visual Basic, VBScript, Perl, Javascript, Coldfusion, C++, iHTML, CSS, HTML, XML, XML Schemas, XML DTDs, SOAP

Tools

Rational Software Architect, Microsoft Visual Studio, Dreamweaver, NetBeans, Eclipse, XMLSpy, JDeveloper, Adobe Flash, Adobe Photoshop, Adobe Illustrator, 3D Studio Max, Plasma, Microsoft Visio, MagicDraw, ArgoUML, RequisitePro