John C. Dhabolt
Principal Software Engineer

Summary

Accomplished principal software engineer and architect with over 25 years of experience in application and database design, modeling, and development, primarily utilizing Microsoft technologies, but also several major projects in Java. Most of that time was with consulting companies working with dozens of clients across a wide variety of industries including financial, health care, advertising, and telecommunications.

Worked 18 years with Havas Edge as the Systems Architecture Director, serving as architect and principal software engineer on projects with companies such as Visa, Barclays Bank, Intelsat, Lexmark, Symantec, and MINI USA.

Spent time as President/CEO of Roaster Technologies, a company with the first clean-room Java virtual machine on the Macintosh (which was licensed to two large operating system companies) and the award-winning Roaster Java IDE.

Skills

Multiple years of use in production work (up to 18): Microsoft web technologies (ASP, ASP.NET, and ASP.NET MVC); C#, SQL Server (from v6.5 through 2016); T-SQL, IIS, Web Services, LLBLGen Pro ORM.

Other technologies used in production work: Java, JBoss, Tomcat, Apache Solr; Lucene.NET; SAML 2.0, Hibernate, Dapper, Entity Framework, LINQ to SQL, Autofaq, Castle Windsor, Ektron CMS, Struts, PHP, Linux, MySQL, Oracle, MongoDB, JavaScript, jQuery, HTML, CSS, Twitter Bootstrap, DevExpress components, Grape City ActiveReports, XML, XSLT, Windows Forms, Windows Communication Foundation, Visual Basic, NUnit, Moq, Shouldly, AutoFixture.

Tools with extensive production use: Visual Studio, ER/Studio, git.

Tools/processes with some production use: TeamCity, Team Foundation Server, subversion, JIRA, Camtasia Studio, Adobe Audition, Adobe Premiere Pro, Agile, Scrum.

Other technologies used in personal projects: AWS, Azure, ASP.NET Core, AngularJS, Node.js, Docker.

Select Projects

A partial client list of companies I was directly involved with in one or more projects includes Havas Edge, Visa, Insignia Health, Lexmark, Barclays Bank, Symantec, Sprint, MINI USA, Tyson, Volvo, New Balance, Exide Technologies, Intelsat, New York Life, Sears, Royal Caribbean, The Art Institutes, Essential.com, and Boston Consulting Group.

Havas Edge: VantEdge Point (2016 – 2017)

Technologies: C#, Windows Forms, .NET Remoting. Windows Communication Foundation, Camtasia Studio, Adobe Audition, Adobe Premiere Pro

Framework and Component Upgrade
- Upgraded one million LOC C# internal WinForms media purchase application from .NET 2.0 to .NET 4.6
- Upgraded eight-year-old DevExpress and Grape City ActiveReports components to the latest versions.

Create Process for Refactoring Legacy Code
- Developed process for refactoring the WinForms code-behind to the Presenter pattern (MVP).
- Developed process for refactoring .NET Remoting to Windows Communication Foundation.
- Created unit and integration tests for the refactored code.
- Created an ASP.NET MVC prototype website as proof-of-concept for the refactored code.
- Created video and written courses to share the process with the team.

Havas Edge: Internal Website to Data Vault Data Warehouse (2016)

Technologies: ASP.NET MVC, Dapper ORM, C#, T-SQL stored procedures, DevExpress controls, Twitter Bootstrap

Sole developer. The website allowed for updating of specialized advertising impression attributes based on a series of business rules.

- Created website as front-end to a data vault data warehouse.
- Created unit and integration tests.
- Created stored procedures to access the data vault schema.

Visa: Visa Product Brand Standards (2014 – 2016)

Technologies: ASP.NET MVC, SQL Server, LLBLGen Pro ORM, C#, Twitter Bootstrap

A rewrite of an ASP.NET website that used XML files for site copy and XSLT for page creation.

- Created support for allowing the client to create and update content (which previously required the agency to manage).
- Created the database schema and application to allow for custom content displays based on complex business rules.

Insignia Health: Flourish Website (2010 – 2011)

Technologies: ASP.NET Web Forms, SQL Server, C#, SAML 2.0

Our team took over the development of an existing application to enable single sign-on and other requirements. We met a tight deadline of January 1st for launch date.

SAML 2.0 Single Sign-On
- Used low-level SAML 2.0 toolkit (from Component Space) to allow for both Identity Provider and Service Provider single sign-on.
- Created extensive audit logging to quickly enable us to efficiently debug problems with partner integrations, saving the client well over $100k in SAML server licensing fees.

External Data Integration
- Created automated import of large XML files (4Gb – 6Gb+) into a SQL Server database from a large health-care provider.
- Worked with other business partners to import various custom data formats.

<u>Lexmark: Ink and Toner Printer Rewards</u> (2007 – 2016)

Technologies: ASP.NET Web Forms, SQL Server, LLBLGen Pro ORM, C#, Web Services

Architected and served as lead developer on several projects related to their ink and toner cartridge rewards programs.

Ink Rewards
- Created multi-tier software architecture using C# and ASP.NET Web Forms.
- Created the data model (with 148 tables) and implemented it in SQL Server;
- Created web services to allow for external access to the application (including their customer acceptance testing team)
- Integrated numerous automated data feeds, including their printer and cartridge orders.

Customer Service Website
- Created a web application to enable their CSR support staff to answer questions related to the rewards program.

Toner Rewards
- Extended the existing Ink Rewards application to support new requirements and business rules for their toner printer division.

<u>Barclays: iPath ETN Website</u> (2005 – 2012)

Technologies: Java, Tomcat, JBoss, SQL Server, MongoDB, Apache Solr, Google Search Appliance

- Architect and lead developer on their original iPath ETN website.
- Replaced Google Search Appliance with Apache Solr.
- Created semi-automated process for creating custom charts from disparate data sources. This was originally a manual process in Excel.

Companies and Positions

Havas Edge
June 1999 – 2017: Director, Systems Architecture

Natural Intelligence
January 1998 – June 1999: Director, Advanced Technologies

Roaster Technologies
January 97 – December 97: President / CEO

Natural Intelligence
September 96 – December 96: Director of Java Products
July 96 – September 96: Product Manager for Roaster
January 96 – July 96: Technical Support Manager for Roaster
July 94 – January 96: Project Leader
May 94 – July 94: Software Engineer

Courses Taught, Speaking Engagements, and Published Works

Havas Edge, Courses (privately hosted on Teachable.com)
December 2016: *Refactoring to Fat Presenter* (1.5 hours over 12 video segments)
December 2016: *Windows Communication Foundation Basics* (article)

Java Web Development Tour
1996: Did a series of speaking engagements across the US on web development with
EveryWare Development, Adobe, and StarNine. Apple sponsored this tour.

International Java Developers Conference, Speaker
1996: *Java and the Intranet*, 90 minutes, New York

WebEdge Conference, Speaker
1996: Two speaking engagements on using Java in websites.

MacWorld Java Panel, Panelist/Speaker
1996: *Java in the Enterprise*

SciTech Journal (ISSN 1072-0995), Volume 6, Number 3
March 1996: *Exploring Java* (co-authored with Deb Weissman)

Continuing Education

A constant learner who has read hundreds of technology books, watched dozens of
technology videos and attends meetups in the Boston/Southern New Hampshire
region. Have personal subscriptions to:

- Pluralsight
- Safari Online
- Construx OnDemand (Steve McConnell of Code Complete fame)
- Udemy (own dozens of technology related video courses)

Contact Information

Nashua, NH

References, code samples, and course samples available on request

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