**Michael Paul Simon**

###### UX Architecture, Data Visualization, R&D Prototyping

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Work Experience

**Watermark Estate Management Services (Contract)**

**May 2017 – Present**

**Hardware/Software Engineer**

Software design, architecture, prototyping, and development on confidential Home Automation, Software Administration Tools, and Security projects. Watermark Estate Management Services, LLC is a private company which provides a variety of family office services worldwide, including estate management, operations, project management, security, travel, finance, administration, and technology services.

**Technologies**: C#, C, WPF, ASP.NET MVC, WebAPI, SQL, HTML 5, JavaScript, CSS3, AngularJS 1.X (mvc), NodeJS, Git (source control), Visual Studio, SQL Management Studio, Netlinx Studio, QSys designer, Photoshop, Illustrator, Microsoft Azure Facial Detection and Recognition

**Futurewei (Contract)**

**May 2016 – May 2017**

**Senior UX Developer Lead**

Worked on confidential R&D Network Function Virtualization and Orchestration project

**Technologies**: HTML 5, JavaScript, CSS3, AngularJS (mvc), NodeJS, Swagger, NPM, Bower, MongoDB, Git (source control), BabylonJS, ThreeJS

**Microsoft (Contract)**

**January 2016 – May 2016**

**Software Design Engineer 3**

Worked on confidential 2D and 3D Hololens Web Ecosystem project

**Technologies**: HTML 5, JavaScript, CSS3, EmberJS (mvc), NodeJS, WCF, Swagger, NPM, Bower, Git (source control), BabylonJS

**Google (Contract)**

**December 2014 – December 2015**

**UX Engineer/Prototyper**

Developed UX prototypes for Google Cloud Platform. Maintained and updated a functional spec site with working examples of components and patterns. Mentored designers and new UX engineers on environment config, making updates to the spec site using developer tools, and the Google Cloud Platform developer console. Worked with UX Researchers, evaluated UX research, made comments and suggestions on new research and designs, and worked with designers to iteratively explore and develop excellent, intuitive, and research based user experiences. Minimal design work, and modification of design assets.

**Technologies**: HTML 5, JavaScript, CSS3, AngularJS (mvc), NodeJS (node-static local development), Google Cloud Platform SDK, Google Cloud Platform Developer Console, Git (source control), Photoshop, Sketch, SublimeText

**Wizards of the Coast/Widenet Consulting (Contract)**

**August 2013 – December 2014**

**Senior Software Developer**

Developed and refactored middle tier architecture on an administrative scheduling tool used to manage games, tournaments and other types of organized play for the Magic the Gathering Online game. Created Web API and WCF web services in 4-tier web application. Interfaced with Sencha and JQuery web front end. Wrote Google Chrome extension for generating check-in notes from incident tracking system. Worked/Communicated with the team to create stories, tasks, and estimates for sprint planning in a scrum environment. Managed individual story execution to completion and communicated status for developers connected to the story in daily standups.

**Technologies**: c#, MVC4 Web API REST, WCF Web Services, HTML 5, CSS 3, Sencha, JavaScript, JQuery, Windows 7 (dev), Windows Server 2008 R2 (prod) and MSSQL (Stored Procs, Tables) in Visual Studio 2010, SPIRA (task/issue tracking), Code Collaborator (code review management), One Note (story/project tracking), Perforce (source control)

**Bill & Melinda Gates Foundation/Brightlight Consulting (Contract)**

**May 2012 – August 2013 (40hrs)**

**August 2013 - January 2014 (~10hrs)**

**Senior Business Intelligence Engineer**

Principle developer of the front and middle tier of DataBook .Net web application. DataBook is an executive level decision support tool which allows users to search, faceted browse and dynamically visualize indicator fact data; aggregated from 60+ data sources including World Bank, World Health Organization, FAOStat. Ported DataBook to a Windows 8 Store application (Metro/Modern) using WinJS. Developed application architecture, wireframes, working prototypes, data visualizations and other tools. Developed and evolved UI standards for each feature of the application.

**Technologies**: HTML 5, CSS 3, SVG, JavaScript, JQuery (using Unobtrusive JavaScript pattern), D3.js, c#, WCF, REST, custom web services, Windows 8 Application development for Surface, Laptops, & Perceptive Pixel, Sharepoint 2010, Windows Server 2008 R2 and MSSQL (Stored Procs, Tables) in Visual Studio 2010, Visual Studio 2012 and TFS.

**Microsoft/Chameleon Technologies (Short Term Contract)**

**March 2012 – April 2012**

**Senior Software Developer**

Created a WPF application to host, control and manage communications between multiple, dynamically loaded application. Managed applications through marshaled Application Domains and allowed for dynamic messaging and context switches.

**Technologies**: C#, WPF, XAML, MVVM, WinRT/Metro

**Orions Digital Technology/TekSystems (Contract)**

**August 2011 – March 2012**

**Senior Software Developer**

Work under NDA

**Technologies**: Visual Studio 2010, Expression Blend 4 & 5 Preview, Silverlight 4 & 5 with XNA and MVVM, ASP.NET MVC3, C#, WCF, WPF, ASP.Net Web Services, Blender, Bundler, CMVS/PMVS2, Photosynth, Meshlab, Meshlab Server, Telerik Silverlight Controls

**Microsoft/TekSystems (Short Term Contract)**

**June 2011-August 2011**

**Senior Software Developer**

Development work on Windows 8 App Store.

**Technologies**: Visual Studio 2010, Blend 4, Silverlight 4 with MVVM, ASP.NET Server controls, ASP.NET MVC3, WCF, Microsoft Identity Framework , C#, Microsoft SQL 2008

**Intellectual Ventures Labs**
**July 2010-June 2011**

**Senior Software Developer – UI/Framework Architecture**

Designed a dynamic, data driven UI and data visualizations for the IV Epidemiological Modeling of Disease (EMOD) team. The EMOD team was tasked by Bill Gates to develop eradication models for diseases like Malaria, Polio and HIV. Developed and presented architecture documentation for UI, Data layer, Authentication and SQL data model. Developed automated deployment scripts for creating/deploying tables and stored procs. Created WCF and http handler web services using self-serializing objects shared between Silverlight and the Data layer. Developed a UI that could be changed from the SQL server which dynamically loaded various input and visualization controls. Presented work to stakeholders such as Bill Gates, Nathan Myhrvold and various research scientists.

**Technologies**: SQL 2008, Visual Studio 2010, Windows 7, Expression Blend 4, C# and Silverlight 4.

**Microsoft/BluWater Consulting**

**June 2009-August 2010**

**UX Architect: Data Visualization**

Created unified design and custom/experimental data visualizations for massive data sets in the Microsoft CSS data warehouse; reflecting such data as survey usage, drop-off, trending, cross-tab from 200+ data sources. Data sources include data from Microsoft.com, MSDN, Social, Channel 9, Get help and others. Designed and architect a dashboard for Product Quality Business Intelligence team with user/role/team aware reports, custom visualization and navigation.

**Technologies**: Microsoft Visual Studio, C#, .Net 3.5, SQL server 2008, Microsoft Silverlight 2 and 3, Silverlight Toolkit, HTML/JavaScript/DHTML/AJAX, XML/XSLT transformation

**MSNBC.com/Microsoft**

**May 2006-June 2009**

Software Development Engineer

 **Work**: Work on the Tactical Team at MSNBC.com, the worlds most popular news website doing short to medium length sales oriented projects. Co-developed MSNBC Next Generation Video player. Created a secure, re-usable client web service and mappoint proxy to interact with video search provider, mappoint and other external web services. Worked on prototyping new technology applications alone, with Microsoft Research (details withheld due to NDA), and Microsoft content providers. Architected and developed MSNBC’s Virtual Earth implementation. Architected and developed MSNBC’s Windows Live Contacts implementation. Combined several maintenance tools into one comprehensive maintenance tool used across several departments. Worked on major and minor releases and enhancements on MSNBC's publishing tool. Received excellent reviews for communication, collaboration and innovation.

 **Technologies**: Microsoft Visual Studio, C#, .Net 1, 2, 3 and 3.5, SQL server 2000, 2005 and 2008, HTML/JavaScript/DHTML/AJAX, Microsoft Virtual Earth, XML/XSLT transformation on client and server, Macromedia Flash integrated with JavaScript, Microsoft Silverlight 1 and 1.1.

**CTI Group**

**May 2004-May 2006**

**Thin Client UX Architect**

Create a customizable web user interface wherein the user or administrator is able to dynamically change styles, change locations of web parts, change locations and functionality of buttons, customize navigation, create favorite reports designed in Microsoft Reporting Services, re-use and dynamically recycle, resize, hide or show web parts or part columns, display contextual or application help or DHTML menus based on web part and allow access to all of this functionality to be controlled through a security interface. Create mockups, storyboards, or walkthroughs of all application functionality. Create the data structure, DHTML, CSS, HTC, XML/XSLT, ASPX pages and underlying C# code-behind that drives the UX and frames all application functionality. Create all graphics and graphical elements for the UX including icons, logos, buttons, and images based on photos and art.

 **Technologies**: Microsoft ASP.NET, C#, ADO.NET, SQL2k, Microsoft Visual Studio.NET platform, HTML, JavaScript, CSS, XML, XSLT, HTC Behaviors, Adobe Photoshop, and Illustrator.

# Technopiate Design

**October 2003-May 2004**

**Independent Contractor**

Create web applications using a variety of technologies to create interactive web presences. Elements of job include: requirements gathering, scope creation, content gathering and creation, project management, application development using appropriate technologies to the platform and customer needs, communicating status and updates to clients, delivering applications and follow-up support through the complete software development life cycle.

**Technologies**: Silverlight, MVC3, HTML5, Microsoft ASP.NET, VB.NET, C#, ADO.NET, Classic ASP, VB Com+, SQL2k, Microsoft Visual Studio.NET platform, Visual Interdev 6, HTML, JavaScript, CSS, PHP, MySQL, Macromedia Flash, Adobe Illustrator, and Photoshop.

# Real Med

# January 2003 – October 2003

**Web Marketing Technologist**

Work as primary technology liaison between the marketing and application development departments. Maintain, design, implement and convert .NET and Classic ASP applications for the intranet and Internet sites. Managed all web projects for Marketing Support and coordinated programmatic and design integration with our application development staff from scope to release.

**Technologies**: Microsoft ASP.NET, VB.NET, C#, ADO.NET, Classic ASP, Com+, SQL2k, Microsoft Visual Studio.NET platform, Visual Interdev 6, HTML, JavaScript, CSS, Visual Source Safe and Photoshop.

# Web Interactive Solutions (Contract)

# June 2002 – October 2002

**Web Application Developer**

Co-designed a dynamic survey creation tool for an Application Service Provider. Acted as primary application architect for the application model and co-designed the database model. Provided support planning for the application as well as created a back-end administration interface. Managed core application project with the data and infrastructure leads.

**Technologies**: Microsoft ASP.NET, VB.NET, ADO.NET, Classic ASP, Com+, SQL2k, Microsoft Visual Studio.NET platform, Visual Interdev 6, HTML, JavaScript, CSS, Visual Source Safe and Photoshop.

# Department of Economic Development

# January 2002 – June 2002

**Senior Web Application Developer - CONTRACT**

Managed the entire scope of several concurrent projects by: Taking project requirements and scope from various departments and creating a project plan. Designing an appropriate database using stored procedures for all table access and manipulation. Created dynamic data-oriented pages and documentation for all application, which included screenshots, style breakdowns, process flow, testing and implementation.

**Technologies:**  ASP, SQL, Visual Interdev, VB6, HTML, JavaScript, CSS, Visual Source Safe and Windows NT4.

# Prairie iNet

# March 2001 – January 2002

### **Database Web Application Developer**

Primary job responsibilities include project planning, data modeling and web application development using web development tools to create custom web applications for internal and external customers and RODOPI, a web based ticketing and billing software. Among the projects I managed/implemented were:

* A fully searchable dynamic IP database/COM+/ASP application that linked to our billing DB application allowing us to track IP usage from individual users and modify any aspect of that IP or customer relation.
* A browser based ActiveX telnet proxy client/server application with 56-bit client-to-proxy encryption for secure external access to our infrastructure.
* Participated in the creation of a new architecture for the ticketing system.
* A COM/ASP application that dynamically created Excel reports from SQL server data, based on user-defined criteria.
* An ADSI interface to our Unix Netscape LDAP server for the Billing engine for authentication and account creation purposes.

 **Technologies:** ASP, SQL 2000,VB6 COM+ & ActiveX, HTML, EditPlus, Visual Interdev 6, and JavaScript, Photoshop.

## Wellmark Blue Cross Blue Shield

## September 1999-March 2001

### **Information Analyst**

Acted as a central contact for all intranet web implementation for Wellmark. Developed web functionality as well as published intranet content. Developed crucial interfaces and applications for all departments at Wellmark and maintained day-to-day intranet changes from departmental sources throughout the company. Worked daily with internal business owners creating project scopes and maintaining communication and documentation throughout project lifecycles.

Project highlights include (Wellmark cont’d):

* Created the Web Front end of the Wellmark Executive Information System (EIS) used to interface with SAS web services.
* Wrote a VB application that interfaced with both Radius server and NDS using LDAP to report laptop and secure ID FOB usage.
* Employee Information database tool that stored employee professional and personal skills for future HR use.
* Created a hierarchical Organizational chart that encompassed all departments and employees and related that to an employee telephone database.
* Created an ADSI interface to the Active Directory Users and Microsoft Exchange Account tables for the purposes of extracting account information for integration with the organizational chart and employee phone books.

 **Technologies:** HTML, JavaScript, ASP, Visual Interdev 6, Front Page (98 and 2000) for version control, MS Visual Interdev and Microsoft VB (5 and 6).

##### February 1998-September 1999

### **Helpdesk Support Analyst (Wellmark cont’d)**

Prior to moving into the Application Development department, I provided phone support and customer service for all Iowa, South Dakota, Pennsylvania and Wisconsin Wellmark BCBS Employees. Began programming solutions in VB6 for the support department. These projects include:

* Designed and implemented IS department Intranet with dynamic knowledge base and employee database using html, JavaScript and ASP.
* Designed VB programs to change Novell passwords and track password expiration.
* Designed web interface for an Internet pager gateway for Wellmark’s IS department.

**Technologies:** Microsoft Office Suite (97 and previous versions), Microsoft Mail & Outlook, Crystal Reports, NT and Novell Network logons, Attachmate, Windows 95 Dial-up networking for at-home nurses, software installation, software upgrades, internet connectivity and configuration for firewalls. Solved the highest percentage of calls for several months (copies of monthly stat sheets available) and helped break staff record for least open calls.

**Other Information**: Won a 1999 Departmental Performance Award and the 1999 Wellmark Presidential Award.

##### Norwest PC Banking @ Norwest Card Services

##### August 1997- February 1998

***Emerging Markets Technical Analyst***

Provided technical support for Quicken (versions 5-7 for Windows and 6-8 for Mac) and Microsoft Money (versions 3-6) for Norwest PC Banking and communications support for all dialers. Processed applications, maintenance and other service requests from bankers and end users.

**Technologies:** Windows 95 Dial-Up networking, Windows 3.1 dialers (Shiva and others) and limited MacTCP. Worked with CICS, MR-WIN, FDR and other bank proprietary systems accessing confidential customer bank records.

# Sitel Technical Services

# December 1996 – August 1997

***Technical Support Engineer***

Provide phone support for communications software, including setup, usage, configuration, networking and general troubleshooting for an on-line financial portfolio management program. Designed internal MS PowerPoint Active Display presentation and developed corporate intranet. Worked with Adobe Photoshop on internal/external graphic design projects.

 **Technologies:** Windows 3.x and 95 communication architecture, TCP/IP protocols and Winsock. Developed the contract Intranet site.

## Technopiate Design – June 1997 - Present

### **Freelance Web Design Consultant**

Started a part-time freelance web design and consulting company in 1997 supporting several clients as well as developing multiple interactive web sites for public use.

**Macmillan Publishing (Now New Riders):** Worked as a contractor for Macmillan publishing doing contract programming and as a technical editor for interactive CD’s for Macmillan publishing’s “Special Edition: Using HTML 4, 6th Edition” and “Complete Idiot’s Guide to Making a Web Page, 4th Edition”. Wrote a JavaScript vendor pseudo-database for Macmillan’s “Upgrading and Repairing PC’s, Linux Edition” CD.

 **Jammin’ Corporation:** Designed and implemented 5 generations of their website on 3 different platforms. Acted as technical liaison to their corporate office in Tokyo and to their parent company at Sony Music of Japan.

**Technologies:** HTML, JavaScript, ASP/VBScript, VB/COM, ActiveX, SQL, IIS, MTS, ASP.NET, ADO.NET VB.NET, Visual Studio 6/.NET, Macromedia Flash, Photoshop (4,5,6,7,CS), Illustrator (8,CS), Windows NT, Windows 2000, Sun Solaris, Linux.

**Education**

**Ball State University** Muncie, IN

September 1988 – June 1989 & January 1993 – June 1993

Majored in graphic design, minor in computer science (88-89). Majored in comp. sci., minor in illustration (93).

**Herron Art School** Indianapolis, IN

August 1990 – January 1991 & August 1996 – December 1996

Majored in graphic design/fine arts.

**Awards**

Gold Key Finalist: National Art Award (88), Extra Effort Award: Sitel Corporation (8/97), S2C2 Helpdesk Institute Certification (98), 3 Wellmark IS Departmental Recognition awards (98), Wellmark Presidential award (99), Appdev Access 97 Programming Fundamentals Certification(99), 16 Wellmark IS Departmental recognition awards (99), Unscheduled Merit Increases (2002, 2004, 2006, 2007)