

## COMPUTER SOFTWARE ENGINEERING PROFESSIONAL

A seasoned, problem-solving, object-oriented, full stack senior software engineer with extensive commercial experience creating high-quality, database-driven complex enterprise applications using C# ASP.NET. Strengths include a hands-on developer and team player, a good user interface designer and interests in the mobile world.

### TECHNICAL SKILLS

- **Languages:** C# ASP.NET Web Forms (advanced) and MVC (novice), Windows Forms (intermediate), JavaScript (intermediate), HTML, CSS3, jQuery (novice)
- **Data Access:** Microsoft SQL Server 2008 (intermediate), Oracle 10g (intermediate), AWS
- **Tools:** Visual Studio, Microsoft SQL Management Studio, Internet Information Services (IIS), Telerik ASP.NET controls, Team Foundation Server (TFS), OOP, N-tier client server architecture

*Personal Projects:* [www.melson.org](http://www.melson.org): MVC-based site incorporating Bootstrap and Angular  
[www.johnmelson.com](http://www.johnmelson.com): Webform-based site using jQuery, AWS, and web services

### PROFESSIONAL EXPERIENCE

**BECTON, DICKINSON and COMPANY, San Diego, CA** **November 2009 – Present**

*An \$8 billion patient care company with more than 40,000 employees worldwide.*

***Senior Software Engineer / Analyst 4 in Learning Management System, Global Learning***

As part of a 9-person team, I helped design, develop and test eClass 4.0 - an FDA-regulated, 21 CFR 11, localized, C# ASP.NET 4.0 and Microsoft SQL 2008-based learning management system. It is a single sign-on Windows-authenticated site used worldwide for employees to take and manage their training requirements.

- 3-tier ADO.NET application employed C# master pages, resources files and inheritance of base classes.
- Built complex custom user controls, a quiz tool, an audience selector, and executed SMTP functionality.
- Wrote and performed implementation plans for deployments.
- Created SQL stored procedures, SSIS packages, and functions and views supporting the data layer.
- Managed and extended internal web-based database-driven bug tracking site (BugTracker.NET).
- Developer of a ScrewTurn-based Wiki for the software development team to promote collaboration.
- Introduced team to Scrum and Agile software development and cross-trained as needed.

**IRDETO BSS, Carlsbad, CA** **May 2005 – August 2009**

*A \$75 million cable and satellite TV customer care and billing software provider.*

***Staff Senior Software Engineer***

Delivered various C#-based components adding extensive capabilities to the ASP.NET 3.5 flagship application, IBS v6, in an Agile-based software development environment. Co-lead developer from inception in a 7-member team creating a BackOffice C# Windows Form configuration application using software patterns to ensure proper code development as new engineers joined the team. Subject Matter Expert in a BackOffice application that allowed users to run massive batch updates to the application's database.

- Developed C# ASP.NET 3.5-based web pages for IBS v6.
- Lead developer of a C# Windows Form BackOffice application (the Translation Manager) that updated a separate Oracle database so users could configure each text element of the user interface.
- Used Team Foundation Server and Cruise Control.NET for automated continuous source control.

- Resolved software defects in legacy Visual Basic 6 SP5 application; designed and created a Silverlight 2.0 prototype and a WPF prototype for its updated version.

**INDEPENDENT CONTRACTOR, San Diego, CA**

**May 2003 – May 2005**

***Software Engineer – Fresenius Medical Care Extracorporeal Alliance***

Lead developer in a three-person team; initiated R&D and design phases of a Visual BASIC.NET project to replace a legacy database application (Paradox database on DOS) for a medical personnel outsourcing company.

***Senior Software Engineer – Hewlett-Packard***

Contributed to team of software engineers in an internal study on the usability of the company's large intranet.

***Software Engineer – Communication Partners, Inc.***

Collaborated with team engineers and created user interface and data validity component for an internal VB.NET Windows Form application that created benefits enrollment package web sites.

***After Hours Contract Software Developer – East County Economic Development Council***

Worked with a small team to design and develop a classic ASP-based web site to import data for a database used by the California Buyer-Supplier network. *Won 2002 Governor's Technology & Innovation Award.*

**WIRELESS KNOWLEDGE, INC., San Diego, CA**

**June 2000 – May 2003**

*A joint venture of QUALCOMM and Microsoft allowing customers to wirelessly access enterprise data.*

***Senior Staff Software Engineer***

Pioneer in a team responsible for building a SQL Server-driven administrative support web site for maintaining users in flagship collaborative software-mobilizing application, Workstyle. Lead developer in project that transitioning from classic ASP and Visual Basic web classes to ASP.NET data grids and to C# Windows Forms.

**STELLCOM TECHNOLOGIES, San Diego, CA**

**September 1998 – June 2000**

*A multi-million dollar premier systems integration firm.*

***Senior Software Engineer – Staff and Contractor***

Worked with several developers developing Visual Basic components and creating classic ASP web sites driven by Microsoft SQL Server 6.5. Transitioned to Wireless Knowledge in 2000.

**WRIGHT STRATEGIES, INC., San Diego, CA**

**November 1996 – September 1998**

*A \$5 million provider of rapid development, enterprise mobile applications.*

***Webmaster and Technical Publications Manager***

Managed two technical writers who created technical documents for flagship handheld PC-based application, FormLogic. Led the transition of the corporate web site from HTML-based to classic ASP.

**TECHNICAL TRAINING**

Microsoft Virtual Academy – Introduction to ASP.NET Core with Visual Studio 2017

Microsoft Virtual Academy – Introduction to ASP.NET MVC (MVC4)

SkillSoft Elective Training – 2010-Present

Writing Queries Using Microsoft SQL Server 2008 Transact-SQL – 4/2011

Microsoft Professional Developers Conference (PDC) Attendee, Los Angeles – 11/2008

Introduction to Agile and Extreme Programming Practices (Carlsbad) – 9/2007

**EDUCATION**

BA (Biology), Oberlin College, Oberlin, Ohio