



DELPHINUS CONSULTING, INC.

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JIM ESPAILLAT

SENIOR .NET DEVELOPER/ARCHITECT

Professional Experience

Corbin Capital Partners, New York, New York **Feb 2019 – Present** **Consultant**

Performed maintenance on portfolio and risk management applications, written in C# and ASP.NET MVC, and implemented as single-page applications using Angular and WebAPI. Applied refactoring and performance improvements to numerous SQL Server stored procedures. Implemented SQLCLR procedures to invoke R libraries from within the database.

Solely responsible for design and implementation of a new DevOps environment, consisting principally of TeamCity, Bitbucket (Git), and Jira. Migrated production database from SQL Server 2008 to 2017. Created process, integrating Git, TeamCity, and PowerShell, to not only perform continuous integration/deployment of source code, but to also synchronize production and test/dev databases with their respective release branches.

U-Swirl, Durango, Colorado **Jan 2018 – Oct 2018** **Consultant (Remote)**

Designed and developed a cross-platform mobile restaurant inventory system using .NET and Xamarin.Forms. Data entry applications were written to operate on both Android and iOS mobile devices using Azure offline sync features, with reporting and analysis functions written as a UWP desktop application. Microsoft SQL Server database was designed as a multi-tenant system on Microsoft Azure, exposed as a REST OData service using WebAPI, with third-party authentication provided by Auth0.

BioReference Labs, Elmwood Park, New Jersey **Jul 2015 – Aug 2017** **Consultant**

Performed extensive refactoring and maintenance on several business-critical application systems. Applications were written using a variety of tools, notably ASP.NET and both C# and VB.NET, using a Microsoft SQL Server 2012 database.

Designed and wrote a new WebAPI interface for the internal order update subsystem. Performed maintenance on an Angular/WebAPI application to monitor order message traffic to the company's billing system. Responsible for enhancements which included use of the Confluence REST API to store and retrieve documents, front-end integration with Tableau Server, and use of Ghostscript utilities to convert images to and from PDF.

Responsible for setting up Git/Stash and TeamCity in a new continuous integration server configuration, and automating deployment to QA and Production environments.

PwC/Booz & Co, New York, New York **Aug 2013 – Jan 2015** **Consultant (Remote)**

Designed and developed a single-page application website for internal use as part of the Fit for Growth product offering, to analyze and optimize proposed corporate restructurings being undertaken by Booz's own clients. The data-centric application was written using ASP.NET and MVC 5/Razor, against a Microsoft SQL Server 2012 database, and was designed to make heavy use of JavaScript/jQuery and Knockout.js client-side view models to provide a responsive user interface. The application leverages Tableau Server software to provide enhanced data visualizations on the front end, and interfaces with the FICO Xpress optimization engine to provide cost-effective solutions to clients. Entity Framework 5 was used to manage interactions with the database.

Completely redesigned the previous versions of both the application and the database, to effect not only a sizable reduction in the amount of data being processed, but also a resulting significant improvement in performance and reduction in the technical debt attributable to the original design.

ASME, New York, New York **Jul 2012 – Aug 2013** **Consultant**

Designed and developed a number of internal- and external-facing websites, using ASP.NET and MVC 4, against a Microsoft SQL Server 2008 database. JavaScript, AJAX and jQuery features were used extensively to optimize the user experience.

Redesigned the single sign-on system (including front-end interface, web services, and database schema) used by most of the association's public websites to improve data quality and allow for more flexible user registration.

OneWorld, Parsippany, New Jersey **Sep 2007 – May 2012** **Consultant**

Responsible for multiple roles as an application developer, data architect, and database administrator.



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Created CLD, a platform for delivering pharmaceutical marketing content to health care providers at conventions, collecting provider data, and interfacing with clients' CRM systems. Written in .NET, the system comprises multiple applications, all of the following which I personally designed and developed:

- A VB/C#/SQL Compact front end which serves as the engine for dynamically displaying graphic content (both static and Flash images) based on custom configuration files, collecting data from physical card scans, and formatting data for transmission
- Numerous SQL Server stored procedures used to configure the front end
- A set of SSIS packages used to import client customer data into the primary SQL Server database
- A number of C# and VB desktop applications used internally for scheduling and reporting

Created DataVault, a CRM-like system for tracking the activities of individual health care providers across multiple clients and conventions. The system uses sophisticated algorithms written in .NET and deployed to SQL Server using SQLCLR, to standardize and match identifying information from various data sources, and hence of varying quality, along several dimensions (names, addresses, degrees, specialties, etc.) simultaneously.

Served as development DBA supporting all OneWorld applications. Responsible for designing and maintaining table schemas, and enforcing coding standards for stored procedures. Used PowerDesigner to create and maintain E/R diagrams, and to generate change scripts as needed. Provided performance tuning and debugging support to other developers.

Unilever/Best Foods, Englewood Cliffs, New Jersey May 2006 – Aug 2007 Consultant

As technical leader of a team of four developers, designed and developed a commission system to calculate payments to brokers. Application consists of an ASP.NET front end, written in C#, with business logic deployed as Transact-SQL stored procedures in a SQL Server 2005 database. Primarily responsible for overall application design and data modeling, as well as implementing most of the back-end business rules. Implemented numerous reports using SQL Server Reporting Services (SSRS).

Also responsible for performing maintenance and enhancements on the legacy commission system, written in PowerBuilder 9 and Oracle 7/8.

NYC HRA, New York, New York Mar 2006 – May 2006 Consultant

Converted Distributed PowerBuilder components to .NET components deployed on a COM server, and running against an Oracle 9i database. Used Sybase DataWindow.NET to leverage business rules embedded in legacy code.

SetFocus, Parsippany, New Jersey Apr 2005 – Mar 2006 Developer

As team leader, designed and developed a multi-tiered IT Recruiter Placement Application, similar to Monster.com web site, with the capabilities to post jobs, search jobs and query reports. Project included building a Windows based front-end interface for managing the system and database. Created administrative security levels for different users, and wrote stored procedures. Technologies utilized included: C#.NET, SQL Server 2000, Transact-SQL, ADO.NET, ASP.NET, Web Services, COM+ and HTML.

Developed a Windows *n*-tiered "Public Library Management System" application and then ported the application to a dynamic ASP.NET Internet/Intranet model utilizing the same secure middle tier data access components. Non-public web pages were secured using Windows integrated and ASP.NET forms security models.

Used C#.NET and ADO.NET to define and implement secure middle-tier components using both connected and disconnected environment strategies. Components were consumed by web applications and windows applications utilizing SQL Server and stored procedures to perform logical business transactions. Created and deployed XML Web Services using ASP.NET. Consumed Web Services from both Windows forms and ASP.NET web applications.

Created complex business components in C#.NET using .NET Class Library assemblies while migrating and implementing them in a multi-tier environment suitable for Microsoft Transaction Server (MTS) and COM+ to address application infrastructure issues associated with building scalable enterprise level applications used by many clients.

Formal Education

University of Pennsylvania, Philadelphia, Pennsylvania

Bachelor of Arts in Biology

Benjamin Franklin Scholars/General Honors Program