**David M. O’Brien**

**Independent Senior Consultant**

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| Roles:   * Sr./Lead Developer * Architect * Business Analyst * Technical Analyst   Technologies:   * DotNet Framework * C# * MSSQL Server, Oracle * BizTalk Server 2006 R2, 2009, 2010 * NHibernate, LLBLGen * BizTalk ESB Toolkit * XML/XSLT   Architectures/Methodologies:   * SOA * Agile * Object Oriented Design   **Education**  Saint Paul College  A.A. Computer Science  4.0 Grade Average | * Senior Developer with 12 years of software development experience * Strong architecture design and modeling capabilities. * Strong domain and data-modeling skills. * Experience developing in large /enterprise environments. * Experienced in conceptualizing, launching, and driving business/product strategies from a technical perspective. * Has a proven track record of excellent leadership and communication skills, as well as delivering for the client. * Strong organizational and interpersonal skills * Ability to work well in an independent or team environment. * Extensive experience in systems requirements gathering and documentation. * Collaborates effectively with peers and other departments to solve complex problems in an efficient manner. |  |
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**Professional Experience**

**UCare –** *Sr. Consultant* **February 2013 to June 2014**

Development lead on projects integrating new and existing line of business applications with State government and other external integration partners.

* Built new application integrating MNSure Exchange enrollments with backend UCare systems.
  + EDI implementation utilizing BizTalk Server 2010 as integration hub distributing custom processing operations to pipeline components written in C#.
  + Developed custom pipeline components in C# facilitating streaming parsing of large incoming X12 enrollment files, application of custom business logic, and abstraction layer over component code, improving scalability, testability, and ease of integration.
  + Designed and developed Exchange Integration database tables used to capture reporting and metrics data for Enrollment and Reconciliation processing, using NHibernate as the persistence layer.
* Updated existing Claim and Remittance processing applications.
  + Developed streaming X12 parsing component in C#, replacing slow, memory intensive BizTalk maps to parse data from X12 files into lightweight dto’s for processing by ORM layer into SQL Server.
  + Developed new file parsing and import batch process in C# enabling UCare to bypass manual X12 837 and X12 835 Claim/Remittance file drops to meet critical DHS Audit deadlines.
* Co-developed and implemented new TFS source control structure and Team builds.
* Mentored UCare FTE’s in development, testing, and deployment best practices.
* Technologies/Patterns utilized
  + C#/DotNet, BizTalk Server 2010, NHibernate, WCF, SQL Server 2008 R2, TFS

**CHS Inc –** *Sr. Consultant* **September 2012 to December 2012**

Developer responsible for projects integrating internal systems with external Line of Business partners.

* Worked with business analysts to map internal business process data to client interfaces.
  + ESB implementation running on BizTalk ESB Toolkit 2.0.
  + Assisted development lead in programming Models and Controllers in CRM application using MVC 4.0.
* Technologies/Patterns utilized
  + C#/DotNet, BizTalk 2009, BizTalk Rules Engine, BizTalk ESB Toolkit 2.0, MVC 4.0, DB2

**Merrill Corporation –** *Sr. Consultant* **June 2011 to August 2012**

Senior Developer responsible for physical design and development of Business Process Automation project automating complex document workflow and publishing system using SOA/Messaging architecture.

* Designed and developed complex document publishing system designed to route requests to various publishing sub-systems and aggregate results to client.
  + Designed and built document workflow data model and procedures in Oracle database (using TOAD).
  + Developed C# component code responsible for parsing incoming document publishing requests and dynamically building an Itinerary controlling the routing of the message through various asynchronous publishing processes and facilitating correlation of results at process end.
  + Worked in concert with Senior Architect and business SME’s to collate dispersed business requirements into concrete BPMN diagrams, physical architecture design, and Excel spreadsheets used by development teams.
* Designed and co-developed document workflow system relying on a ‘state machine’ concept.
  + Built prototype event system implementation leveraging C# and WCF, which abstracted processing details from UI actions resulting in vastly increased pace of development and ease of unit- and integration testing.
  + Integrated document workflow requests with WCF, SOAP, and JMS Services.
  + Mentored team members in best practices and design approaches facilitating rapid team development in an SOA environment.
* Technologies/Patterns utilized
  + C#/DotNet, BizTalk 2009, WCF, SOAP, MSSQL Server, Oracle DB, Itinerary Processing

**Ameriprise Financial –** *Consultant* **December 2010 to May 2011**

Consulting developer on projects designed to develop common platform for handling financial risk modeling needs, and to develop and implement improved grid computing capabilities.

* Developed grid computing interfaces in C# freeing client from dependency on 3rd party ‘Black Box’ tools, enabling them to take full advantage of existing grid computing framework and positioning them to move to cloud services in future iterations.
* Collaborated with Principle Architect in design and development of application framework code.
  + Built ‘Pluggable Business Rules’ code in C# facilitating dynamic execution of business rules against C# rule components, BizTalk BRE rules, or any other rule store.
  + Built logging API in C# over logging sinks (Log4net, Event Log, SQL Server, text files) abstracting away details of calling various sinks and configurable at runtime via bit flags.
* Technologies/Patterns utilized
  + C#/DotNet, BizTalk 2009, BizTalk Rules Engine, Platform Symphony Grid Framework, SQL Server

**Lighthouse1, LLC (Now Evolution1) –** *Lead Developer* **July 2006 to November 2010**

Development lead on high visibility team integrating multiple external vendors and clients on Consumer Driven Health Care benefit platforms via Debit Card.

* Designed and developed robust, supportable Debit Card transaction processing system.
  + Developed Debit Card transaction processing components in C# responsible for applying business rules
  + Co-developed DB Repository components in C# abstracting away details of database persistence and facilitating move from LLBLGen to NHibernate, and was also part of team exploring replacing NHibernate with Entity Framework to remove dependency on 3rd party components.
* Designed and developed beta integration with a major Debit Card vendor facilitating fully automated Employer and Health Care Plan setup functionality, greatly streamlining process of bringing on new TPA’s and Clients.
  + Designed canonical document-centric interface abstracting away initial client’s API-centric interface; this schema became the internal company standard for use with future Employer/Plan setup integrations.
  + Built ‘State Machine’ components leveraging C# and T-SQL stored procedures to reduce system complexity and which virtually eliminated system errors resulting from ‘out of sync’ integration data.
* Technologies/Patterns utilized
  + C#/DotNet, BizTalk 2006 R2, WCF, SQL Server, MQ Series, variety of ORM’s

**Benesyst, Inc –** *Programmer/Analyst* **January 2005 to July 2006**

**BCH Realty –** *Programmer/Technology Support* **December 2003 to January 2005**

**Anderson Performance Improvement–** *Programmer* **September 2002 to October 2003**