J. RANDALL SEXTON

**Sr. Software Engineer**

[jrandallsexton.com](http://beta.jrandallsexton.com/)

**SUMMARY: Application developer with over fourteen years professional experience in a wide range of industries (healthcare, manufacturing, defense, construction), seeks an opportunity for helping a business identify where software will enhance processes – then leveraging my skillset directly in the implementation.**

**EDUCATION:**

2002 Louisiana State University - Shreveport, Shreveport, Louisiana

B.S. Computer Science, CSAB Accredited

2005 Microsoft Certified Professional: 70-306 Windows Applications with VB .Net

2007 Microsoft TechEd 2007 - Orlando, FL

**POSITIONS:**

03/2008 - Current Bechtel Corporation | Oak Ridge, TN

11/2007 - 03/2008 NavigatorMD | Knoxville, TN

03/2004 - 11/2007 DPRA, Incorporated | Knoxville, TN

06/2003 - 12/2003 Computer Resource Group | Knoxville, TN

08/1999 - 02/2003 Kairos Global, LLC | Shreveport, LA

**EXPERIENCE:**

**Bechtel Corporation – Sr. Software Engineer – Oak Ridge, TN |** [**bechtel.com**](http://www.bechtel.com)

* Currently working on a dynamic metadata-driven database system which facilitates management and tracking of Bechtel’s IT assets (hardware and software). API and database were designed in such a way as to provide on-the-fly additions of new asset properties and maintain complete history for audits. Client-side is 100% Javascript utilizing jQuery, jQuery UI and Bootstrap frameworks. Back-end is a C#, WCF REST service sitting on top of MSSQL returning JSON  
    
  Consolidation of assets into a single system resulted in Bechtel passing an internal audit of asset inventory on the first attempt in recent history.
* Implemented an alternate web service in order to facilitate specific needs of iOS consumers in a barcode scanning application for offices in Australia
* Implemented an internal survey application whose questionnaires were generated on data in the aforementioned system in order to facilitate data capture on over 7,000 points of data with minimal user input. System utilized ASP.Net Web API on the server-side and the client-side is 100% Javascript, jQuery and Bootstrap Framework.
* Developed a dynamic data-driven jQuery/jQueryUI application which presented all of Bechtel’s IT assets to intranet users and provided the application owners the ability to update application metadata
* Developed WCF services on all projects to facilitate code reuse throughout the organization as part of the Project Services Network effort
* Created integration services for systems integration between multiple key IS&T systems
* Automated tasks that were still being performed manually by junior-level developers

**NavigatorMD - Sr. Programmer - Knoxville, TN |** [**navigatormd.com**](http://www.navigatormd.com)

* Designed and developed an updating mechanism for patching the application (WinForms)
* Designed and developed the mechanisms by which licensing, registration, and demos were handled
* Designed and developed the mechanisms for the dynamic splitting of databases, posting of databases, and data distribution to all customers

**DPRA, Inc. - Defense Systems Group – CFAST Project – Knoxville, TN |** [**dpra.com**](http://www.dpra.com)

* Designed and developed applications, services, reports, and web applications for the CFAST project – a collaborative environment for military campaign planning. [ [http://www.dpra-aus.com/index.cfm/m/28](http://www.dpra-aus.com/index.cfm/m/28%20) ]
* Responsible for creating and updating numerous (50+) reports using Crystal Reports and Developer Express XtraReports. Reports based on SQL Server stored procedures and views which I created specifically to support reporting efforts.
* Developed a utility which created blueprints of software installations and provided a means to verify file versions of current installations against a previously-created blueprint. The application dynamically loaded assemblies and recorded internal attributes. Furthermore, the application would determine dependencies for all managed dlls and exes. After dependencies were determined, the presence or absence of the dependency was determined and displayed
* Developed a web-based adhoc charting/graphing solution using ASP.Net and DundasChart.
* Created a custom user control using VB.Net and DundasChart which automatically generated a chart of baseline data for a team member’s application. The control was specifically designed to accept real-time data changes from the aforesaid application.
* Developed a Windows service that monitored a MSMQ queue and accepted objects through the queue. The purpose of the service was to detect logical error conditions at the plan level and write alert messages to the database where later they would be retrieved and displayed to the user through a Sharepoint portal. The architecture was such that the service executed modules of code for the object received. The code modules could be added or changed as needed without stopping the service or recompiling the existing code. The logical conditions to be checked for each plan were located within the dynamically loaded code modules and the design allowed for easy logic changes and the addition of new logical checks.

# Computer Resource Group - Software Developer/Lead Programmer - Knoxville, TN

* POS-itively POS – Maintained the existing product of restaurant point-of-sale software
* Wireless Waitress - Implemented new features such as the ability for the wireless products to possess dynamic menus. The menus were previously hard-coded for each wireless client. This reduced rollout preparation for each customer from 20-30 hours to less than one business day.
* Convention Attendance System – The system integrated with the reservation module of the existing non-wireless application and provided a means for convention workers to search for registered guests, retrieve their designated table numbers and seat assignments, and mark their arrival times from a WiFi-equipped Palm handheld.
* Driver’s License/Membership Verification System - utilizing a WiFi-enabled Palm device equipped with a magnetic stripe reader, the system allowed the user to swipe and verify any state-issued ID which had a magnetic data stripe on it. Upon swiping, the encoded data was displayed along with the calculated age.

# Kairos Global, LLC - Software Developer/Network Administrator - Shreveport, LA

* Tank/System Specifications System – The application took distiller information such as distillate types, annual production in liters, batch sizes, and other information about the Allegro™ process and provided engineers with a concise summary of tank sizes, pump flow rates, amount of piping, estimated construction costs, operating costs, and other essential information needed for Allegro™ pricing and implementation timelines.
* Samples Tracking System – System was developed in order to provide Kairos with a means of electronically recording sample information. The GUI was designed to represent the layout of actual prototype units within the lab where samples were processing. Information on any unit could be obtained by clicking the particular unit’s icon. The application also had a detailed reporting section.
* Sales Application – The application was used in sales meetings with distillery owners and provided on-the-fly reports pertaining to the distiller’s current production costs and capabilities versus the Allegro™ process. This information was later used in combination with the data obtained from the Tank/System Specifications System in order to determine final estimates for implementation.

**SKILLSET: (Skill, Years Experience, Year Last Used | Comments)**

* C# (9 - 2014), VB.Net (7 - 2009), C++ (2 - 2003), VB (4 – 2003)
* ASP.Net (6 – 2012) & ASP.NET MVC Framework ( 1 – 2013)
* Web Services – ASMX/WCF/ASP.Net Web API | REST | SOAP/XML/JSON
* SQL Server 2000/2005/2008 (9yrs)
* Oracle 9x, 10x, 11x ( 3 years – 2012)
* ADO/ADO.Net (12 – 2014)
* Crystal Reports, Developer Express XtraReports, SQL Reporting Services
* T-SQL, PL/SQL
* JavaScript including jQuery and jQueryUI frameworks
* CSS frameworks such as Bootstrap
* Layered architectures/N-Tier development practices (8 – 2014)
* Unit testing with NUnit/NCover ( and MS-Test to a lesser degree ) via TestDriven.net plug-in
* Ruby/Ruby on Rails (< 1 yr – 2012)
* Node.js ( “play” projects only )
* VSNomad [HTML5 to native mobile] ( “play” projects only )
* Experimentation with Heroku
* Source control: Subversion (primary) [AnkhSVN/TortoiseSVN], TFS, VSS and very limited GIT experience