BILL MAINTZ

Solution Developer

C: (314) 852-6074
H: (636) 625-1118
bill@allbusinesscomputerservices.com
5 Lussac Court
Lake St. Louis, MO

Career Summary

Senior-level Hands-On Software Developer / Technical Lead / Solution Architect with an extensive background in application and web development and/or modification. Possesses a well-rounded developer background in the conception, design, development, and implementation of a full array of computer products and systems. A versatile communicator who has demonstrated excellent oral and written communication skills by delivering technical and business information to diverse audiences, from small senior management groups to large convention assemblies. Recognized for his ability to bridge the technical and business aspects of the organization as the technology changes and impacts core business values. And most importantly, a problem solver with the knowledge and experience to quickly solve problems and keep application development moving forward.

Key Competencies

- Business Requirements Gathering
- Technical Specification Documentation
- Custom Software Development
- Operational Analysis
- Change Management
- Guidance/Mentoring
- Systems and Procedures Development
- Testing/Quality Assurance/Control
- Personnel and Staff Development

Selected Achievements

Quickly developed websites

Using HTML, SCSS, CSS, ASP.NET, Razor C#, JavaScript/Typescript, the Angular framework, Bootstrap, node.js Responsive Web Design, and C# back-end APIs, I've developed websites using each of these technologies/frameworks and have developed expertise on the complimentary tools used with each, like node package manager and yarn. This experience includes the use of multiple editors, IDEs, repositories, SQL back-ends, graphic design tools, compilers, syntax checkers, and automated testing tools.

Reduced Change Management efforts through reusable code and customization through CSS

While working as the Lead Developer of a firm's multi-client Java, JSP, and WebSphere-based web portal utilizing XML SOAP web services to acquire and update sensitive PHI data, I developed client-specific front-ends (the GUI) using cascading style sheets and HTML, custom back-end code for each client's web portal and web services, providing unique graphics, color scheme, and functionality to each, while maintaining the same reusable base core system. This approach reduced the testing effort as well as the source code and change management processes which were maintained within a TFS platform.

Extracted and converted XML error logs into meaningful and readable reports

While working as the Technical Lead on a national firm's software upgrade project, I designed and developed a process that would read the XML-based error logs generated from daily batch processes and generate meaningful and human-readable reports with a standard output so that the operational results of the old version of the application being upgraded could be compared with the new version of the application. The standardized output of each was further analyzed so that any differences in the two systems could be quickly identified. This tool saved hundreds of hours in test analysis and triage.

Converted concepts to program designs and developed an international data model

While working as the Data Architect of an international firm's computer software subsidiary, I analyzed the research data and then, using the ERwin data-modeling tool, created the data model for a multi-lingual, relational database for an internationally distributed software product. The design allowed each software program in the multi-program suite to run independently of one another or in conjunction with any one or all of the other programs and have its contents presented in English or one of seven foreign languages.

Education

Bachelor of Science Degree majoring in Business Administration/Management Information Systems from Southern Illinois University

TECHNICAL EXPERTISE

Operating Systems:
Windows NT / 95 / 98 / 2000 / 2003 / 2008 / 2012 / XP / Vista / 7 / 8 / 10 / 11, Azure Cloud, UNIX, AIX, HP/UX, LINUX

Languages/Frameworks:
C, C++, C#, Visual Basic, VB.NET, VBA, VB Script, JavaScript, JSP, JSON, JQuery, Windows Script, PowerShell, UNIX Shell Script (sh, ksh, csh), PERL, HTML/HTML5, Razor CSHTML, CSS/CSS3, ASP.NET, ADO.NET, MVC, XSLT, XML, XAML, Entity Framework, Angular JS, Angular (v2-13), Knockout, Bootstrap, node, Kentico, Angular Material, pdf.js, ngx-extended-pdf-viewer

Databases:
Sybase (11.x, 12.x, 15.x), Oracle (7.x, 8i, 9, 11), MS SQL Server (6.5, 7.0, 2005, 2008, 2010, 2012, 2016), COSMOS DB, MySQL, Informix, DB2/2, ERwin DB Modeling (3.5.2), Power Designer 10.0, Firebase

Server Technology:
W WebSphere, MQ, PDC, DNS, DHCP, IIS, ISA Server, Web Services, Terminal Server

Tools:
MS Office, MS Project, MS Visio, SharePoint, TFS, Visual Studio, VS Code, Expression Blend, SourceSafe, PVCS, sccs, git, Bitbucket, Jira, Confluence, Apache Ant, npm, grunt, gulp, bower, yarn, yeoman, Karma, Protractor, Eclipse, WebSphere, MQ, Google Chrome, Firefox, EC Gateway, SSIS, SSMS, SSRS, Crystal Reports, Business Objects, Data Integrator, Brio, HPXR, Clarity

Other Disciplines:
ASMX & WCF Web API, EDI, X12, ETL, Data Mart, Data Warehouse, n-tier App Dev, Cognizant/TriZetto/Erisco FACETS versions 2.94-5.01, Broadband RF, Bar Code Labeling

PROFESSIONAL EXPERIENCE

Employer - All Business Computer Services LLC, Lake St. Louis, MO **2005 – Present**

Working as a Senior Technical Consultant and Developer, helped several clients design and develop new systems to either replace old ones or that would address a new business need. This included several major Healthcare Management Organizations like BCBS of Michigan, BCBS of Louisiana, BS of California, BCBS of Western New York, United Healthcare, APS Healthcare, OSF Healthcare, MED3000, and Fidelis Care Because of a diverse technical background, the skill set provided to these and other organizations included requirements gathering, solution design, infrastructure architecting, software and SQL development, environment management, code promotion automation, automated QA testing, production deployment, and post-production support - essentially all phases of the full SDLC model using waterfall and Agile methodologies. The excellence in technical leadership and superior consultation has resulted in several profound letters of recommendation. The following languages and technologies were used within these ABCS projects:

- Operating Systems: Windows NT / 95 / 98 / 2000 / 2003 / 2008 / 2012 / XP / Vista / 7 / 8 / 10 / 11, Azure Cloud, UNIX, AIX, HP/UX, LINUX
- Languages/Frameworks: C, C++, C#, Visual Basic, VBA, VB Script, VB.NET, Java, JavaScript, JSP, JSON, JQuery, Windows Script, PowerShell, UNIX Shell Script (sh, ksh, csh), PERL, HTML/HTML5, Razor CSHTML, CSS/CSS3, ASP.NET, ADO.NET, XML, XSLT, XAML, MVC, Silverlight (3-5), Entity Framework, Angular JS, Angular, KnockoutJS, Bootstrap, Node, Kentico, Angular Material, pdf.js, ngx-extended-pdf-viewer
- Databases: Sybase (11.x, 12.x, 15.x), Oracle (7.x, 8i, 9, 11), MS SQL Server (6.5, 7.0, 2005, 2008, 2010, 2014, 2016, CE)
- Server Technology: WebSphere, MQ, PDC, DNS, DHCP, IIS, ISA Server, Web Services, Terminal Server
- Tools: MS Office (2003-2013) (Word, Excel, Access, PowerPoint, OneNote, Outlook, Publisher), SharePoint, MS Project, MS Visio, Visual Studio (6-2017), VS Code, Expression Blend (3-4), TFS, SourceSafe, PVCS, sccs, git, Jira, Apache Ant, grunt, bower, npm, yeoman, Karma, Mocha, Protractor, Eclipse, MS IE, Netscape, Google Chrome, Firefox, EC Gateway, SSIS, SSMS, SSRS, Crystal Reports, Business Objects, Data Integrator, Brio, HPXR, Web API
- Other Disciplines: EDI, X12, ETL, Data Mart, Data Warehouse, n-tier App Dev, TriZetto/Erisco FACETS versions 2.94-5.01

- **NOTE**: With over 30 years of consulting experience, listing all of the projects and/or positions that I've held within that timeframe would consume too many pages and would not be pertinent to my most recent experiences, so, instead, I've listed the last several projects here with additional work history and employment detail available upon request via a lengthy (20+ page) resume addendum.

Employer – TEK Systems – Premera BCBS, Bellevue, WA **May 2022 – Aug 2022**

Project – Federal No Surprises Act – C# Developer **May 2022 – Aug 2022**

As part of their compliance with the Federal No Surprises Act and other internal program initiatives, Premera Blue Cross wanted to put the processes in place that would handle the EDI exchange of updated provider information with other systems, including both internal and external ones (like Quest). Initially, the request was to have the inbound data from Quest parsed and reorganized into an internal record format. The ETL work on this inbound provider data that was sent from Quest to Premera Blue Cross was in the form of a csv file. The Federal No Surprises Act necessitated that the data be kept current and updated within 48 hours of any change. The acquisition of that inbound data from Quest was transitioning from a push process from Quest to a pull process from Premera across the web by accessing a newly created remote Quest API and pulling that data on an as needed basis. The following languages and technologies were used: Windows 10 Workstation, MS Office, MS Teams, TFS, GitHub Repository, Azure CI/CD, C#, .NET Core 5.0, CSV, JSON, VS Code, Agile Methodology.

Employer – Technology Partners, Inc., Chesterfield, MO **Aug 2021 – Dec 2021**

Project – Swipesum/StAItment – Web Designer & Developer **Oct 2021 – Dec 2021**

SwipeSum provided an application that would allow a user to compare his organization's current credit card processing fees to the fees charged by other credit card processing vendors. The system utilized an automated job stream that included Google Docs AI and ML processing components which would read PDF files, extract the needed data, and insert that data into database to be reviewed and analyzed by a team of experts. Although this system reduced the amount of manual effort involved in performing those tasks, it wasn't 100% reliable, and, therefore, needed a plan B to address the outliers. The Angular front-end I worked on filled this gap, by allowing the original PDF document to be read and the pertinent sections containing the processing fees to be selected, extracted, categorized, and totaled so that they could be included in a proposal to the client. The Angular front-end was embellished by the use of the Angular Material UI component library. The following languages and technologies were used: Windows 10 Workstation, MS Office 365, GitHub Repository, Bitbucket, Jira, Confluence, Typescript, JavaScript, JSON, HTML, CSS, ASP.NET, Angular, Angular Material UI, Bootstrap, VS Code, npm, yarn, pdf.js, ngx-extended-pdf-viewer, Google Chrome, Firebase, Agile Methodology.

Project – Kennelwood Pet Resorts – Web Designer & Developer **Aug 2021 – Sep 2021**

Kennelwood provided an application for handling the grooming and boarding of various types of pets and wanted their UI to be improved using the Kendo UI component library on top of the Angular framework. It also involved the integration of the front-end to a C# Web API and Entity Framework SQL Server backend with full authentication processes which secured the data for internal use only. Multiple test scripts covering approximately 30 different connections to the API were created in Postman to thoroughly test the connectivity and security of the backend before that connectivity was implemented in the Angular Services that called it. The following languages and technologies were used: Windows 10 Workstation, MS Office 365, MS VS2019, GitHub Repository, C#, Typescript, JavaScript, JSON, HTML, CSS, ASP.NET, .NET Core, Angular, Kendo UI, Bootstrap, Web API, Entity Framework, VS Code, npm, yarn, Postman, Google Chrome, MS TSQL, Agile Methodology.

Employer - All Business Computer Services LLC, Lake St. Louis, MO **2005 – Present**

Project – Fight to Become Cancer-Free **May 2019 – Apr 2020**

There is a gap in my employment due to being diagnosed with Cancer in 2019 and then, more recently, trying to avoid contracting the COVID-19 virus. My previous consulting work "MO" included jumping on an airplane Sunday afternoon to fly to a remote work site, working at that remote location during the work week, catching a return flight either Thursday evening or Friday morning, and working from home on Friday. This "normal" activity for me was halted after receiving the news in 2019 that I had Cancer and would have to undergo daily radiation treatments and weekly chemotherapy injections. I obviously could no longer jump on an airplane and fly to a remote location during the week if I had to be at my local Cancer Center every day for treatment. Hence, this created a gap in my employment stream. After my intense treatment, I was diagnosed Cancer-Free in April of 2020 and was ready to resume my previous work "MO" by, once again, traveling to remote job sites to perform custom software development. However, about that same time, the COVID-19 pandemic hit and prevented me from engaging in those travel activities, especially due to my immunocompromised condition due to the radiation and chemotherapy

treatments. I, therefore, used this "downtime" to perform some self-study to improve my knowledge of the Angular Framework and some of the various authorization techniques used to connect to the backend Web API platforms. You see, the option of performing remote-work wasn't as widely accepted back then as it is today in our current work climate.

Project – All Scripts/Avenel – Senior Developer **Jul 2018 – Nov 2018**

Working as a Senior Developer, I developed Azure-based Service Fabric Micro-Services that would 1) provide an audit trail of other micro-service activity and save that activity to a Cosmos DB, and 2) created another micro-service that would provide an externally accessible API that would communicate with and interact with an Azure Data Lake Factory API. The result was an API that would provide a list of Data Lake Factory. The development environment utilized Agile methodology and included Windows 10 Workstations, iPhones, iPads, Azure Cloud Service Fabric, Cosmos DB, MS Visual Studio 2017, .NET Core, NuGet, Postman, MS Code, PowerShell, Node, Agile Methodology.

Employer – Cordell Practice Management Group, Chesterfield, MO **Nov 2017 – Mar 2018**

Project – Angular Website Update & Environment Upgrade **Nov 2017 – Mar 2018**

Cordell Practice Management Group (CPMG) maintained multiple external websites pertaining to men's divorce as well as an internal-facing website that allowed Cordell and Cordell lawyers to enter client information, track their billable time, produce invoices, and track lawyer performance through client surveys and post-litigation feedback. There were also multiple background processes, written in multiple computer languages, and other backend 3rd party applications that were a part of the record-keeping activities and required two-way communication with the internal front-end website. When I first started, most of the development activity was occurring directly in the production environment, which proved problematic and in need of change. Upon my departure, four separate environments had been established with consistent database naming conventions throughout, environment-specific variables had been separated from the executable code and stored in separate configuration files, and guidance had been given on steps to continue that design. This setup allowed them to promote code from one environment to the next without any modification or "localization" of code. There were also measures being taken to control access into the TST and PRD environments so that code promotion could be better regulated. The following languages and technologies were used: Windows 10 Workstation, MS Office 365, MS VS2015 & VS2017, GitHub Repository, C#, JavaScript, JQuery, JSON, XML, PERL, CPAN, PowerShell, HTML, CSS, ASP.NET, Angular JS, Bootstrap, Web API, Entity Framework, VS Code, npm, MS IE, Google Chrome, SSIS, SSMS, IIS, MS TSQL, Trello, & Agile Methodology

Employer - All Business Computer Services LLC, Lake St. Louis, MO **2005 – Present**

Project – True Manufacturing Corporate Website – Web Developer **Nov 2016 – Mar 2017**

The client wanted to update their Kentico CMS website to allow a user to scan the QR Code affixed to each of their manufactured refrigeration products via a user's smartphone and have the system return the serial number and other information about that particular piece of equipment. They also wanted to allow the user to enter the serial number manually on a smartphone, tablet or desktop computer and have the system return the same information (http://www.truemfg.com/QR/9995432). Another project involved the incorporation and interactive display of a parts breakdown SVG format graphics file upon the successful entry of a manufactured product's serial number. It allowed the user to drill down through multiple levels of parts disassembly until the user was able to identify the exact part they needed. The Kentico CMS system utilized an MVC framework that allowed the development and inclusion of Web Parts as well as traditional HTML development that incorporated JavaScript, JQuery, KnockoutJS, Bootstrap, and CSS. Additionally, multiple SQL stored procedures were developed for retrieving the needed information from multiple databases on multiple servers. WCF Web Services/APIs were also developed that called the stored procedures and returned the information to the requesting JavaScript. The HTML web page was created using Bootstrap's row/column structure and multiple CSS media definitions allowing the same page to be viewed on all devices from a Smartphone to a huge Surface Hub display screen. The production deployment process utilized Visual Studio publishing, a TFS repository, and was completed on an Azure Platform using blob storage for all of the graphics files. The development environment utilized Agile methodology and included Windows 10 Workstations, iPhones, Android Smartphones, Azure Cloud Servers, Windows Server 2012, MS SQL Server 2016, MS Visual Studio 2015, Web API, NuGet, Web Matrix, MS Code, JavaScript, Kentico CMS v8.2, Bootstrap 3, HTML5, CSS3, LESS, Font-Awesome, Node, and Bower.

Project – Maintz.com – Web Designer & Developer **May 2016 – Nov 2016**

As the owner of this website, I wanted to rewrite it utilizing the AngularJS framework, Bootstrap, HTML5, and CSS3, if for no other reason than to improve my skillset with this technology. The site (http://www.maintz.com) needed to be responsive, utilize many of the capabilities that the AngularJS framework makes available, and do so in a logical and

exemplary way. The website also needed to work equally well on tablets and smartphones, just as it did on standard and extra-large desktops, so Bootstrap and CSS3 were employed for this purpose. Transitions and transformations were used to create the animation. The resulting website employs many of the base components within the Angular feature set as well as some additional plugins that extend that feature set. Filters, directives, controllers, and services from the base set of Angular components were utilized as well as a photo carousel and calendar from the Angular-UI library. In the development phase, I utilized Grunt and Gulp as task runners/managers during the development process so that whenever code was changed and saved, the website would be recompiled, redeployed, and redisplayed on multiple monitors and devices. Git was used as the source code repository for this website. The development environment included Windows 8.1 and 10 Workstations, Windows Server 2012, MS Visual Studio 2013 and 2015, NuGet, Web Matrix, MS Code, JSON, JavaScript, AngularJS 1.5.8, Bootstrap 3, HTML5, CSS3, LESS, Font-Awesome, Node, Bower, yeoman, Jasmine, and Karma.

Project – AllBusinessComputerServices.com – Web Designer & Developer **Aug 2010 - Present**

The website (http://www.allbusinesscomputerservices.com) was designed and developed with the intention of informing potential clients of the many services that ABCS has provided for its clients over the past 20+ years, including, but not limited to, custom application and web development, technical leadership, and project management. The list of clients transcended many industries and types of organizations, albeit most of them were in the healthcare space. The website was created using standard HTML and CSS. The development environment included Windows XP, 7, & 8, Windows Server 2008 and 2012, MS SQL Server 2008 and CE, IE, Google Chrome, Firefox, C#, JavaScript, HTML, and CSS.

Project – Lumeris / Essence Group Healthcare – Senior Developer **Aug 2015 – Jan 2016**

Lumeris, the software development arm of Essence Group Healthcare, needed to provide additional Electronic Healthcare Record (EHR) transaction processing (specifically 270/271 and 276/277) for multiple trading partners and two separate Blue Cross Blue Shield organizations through the Blue Exchange. Three separate C# applications were developed, each of which used a common function library. The three applications were 1) a Windows Service application, 2) a WCF Web Service application, and 3) a Test Suite testing tool. The Windows service ran on a Facets Application Server and read the inbound queue of the IBM WebSphere MQ Server, performed some pre-processing edits, sent the transaction to the HIPAA Gateway Web Service, performed some post-processing edits on the response, and placed the edited response on the outbound queue. The web service application provided access for trading partners so that they could submit those same transaction types directly. The Test Suite testing tool allowed the QA tester to load and send specific transactions through the MQ Server, through the external Web Service, or through an internal direct connection to a Web API and capture the resulting response transaction for compliance analysis. It also provided the ability to identify multiple transaction files to run through the system in mass, thus allowing easy regression and performance testing. The development environment included a Windows 7 Workstation, Windows Server 2012, IBM WebSphere MQ, MS Internet Information Server, MS Visual Studio 2013, MS SQL Server 2012, WCF Web Service, Web API, a TFS repository, Facets Application Server, HIPAA Gateway Server, and connections to the Blue Cross Blue Shield Association Servers.

Project – Elite Renovations.us – Web Designer & Developer **Jan 2015 – Jul 2015**

Elite Renovations (http://www.eliterenovations.us) needed a website that would allow its potential clients to view the type of work that they were capable of producing. The website had to include the ability to upload photo images of past work, the ability to easily describe and categorize those images, and the ability to retrieve the images by any one of several categories. Since customer satisfaction was important to ER, the website needed to contain a testimonials page and the ability to update that information easily. The website was an MVC ASP.NET website written using Razor C# cshtml syntax. The development environment included a Windows 7 Workstation, Windows Phone, Android Phone, Apple iPhone, MS Visual Studio, MS Web Matrix, MS SQL Server CE & 2012, Brackets, npm, node.js, bower, yeoman, git, Grunt, Gulp.