

Summary:

With over 30 years of software engineering experience, I am seeking a position as a principal full stack web software architect/staff engineer with a focus on C#, .NET Core, SQL, JavaScript, and ReactJS. I have developed many types of software applications for web, Windows, Linux, and embedded systems. I have provided software solutions for companies in several industries including: ecommerce, banking, health care, energy (oil/gas), education, marketing, and aerospace satcom. I have experience leading projects through the full development life cycle using agile methodologies (scrum, kanban). My ideal position will allow me to provide technical leadership to others while developing innovative software that utilizes a combination of my existing abilities and provides opportunities to learn new skills.

Primary Skills:

Languages & frameworks: C#, .NET Framework, .NET Core, SQL, JavaScript, ReactJS, jQuery, HTML, CSS, LESS, SASS

Databases: MS SQL, MySQL, SQLite

Technologies: OOP, Web Services (REST, JSON), Docker, AJAX, responsive web

Source Control: Git, Microsoft TFS, Perforce, SVN

Platforms: Windows, Linux, Amazon AWS

Certifications:

Certified Scrum Master from Scrum Alliance

October 2014

ECSP (EC-Council Certified Secure Programmer)

April 2010

Experience:

Staff Software Engineer / Software Development Manager

Jul 2015 - Current

Viasat, Inc. - Carlsbad, CA

I filled multiple roles including hands-on manager, directly managing a 9 member team responsible for creating and maintaining web applications, web services, data analytics tools, data transfer tools, and corporate standards libraries (DLLs packaged in nuget).

I designed and implemented a hybrid software development process to facilitate faster and more robust output from my team. I created and/or implemented the following: Kanban, customized Jira workflow, peer code reviews using Crucible, software testing process, virtual dev/test environments (ESXI).

I developed a web-based enterprise data transfer application to standardize the process of accepting data from external sources. The solution was created using ReactJS, MS SQL, and C# hosted on AWS GovCloud. It was more secure and flexible than legacy processes while allowing users to upload files via web, web API, or SFTP.

I re-designed and simplified a complex MS SQL database and increased query performance more than 1,000x. SQL queries that previously took 25+ minutes to complete were reduced to 1-2 seconds. I converted a large web application from PHP "spaghetti code" to C# to improve structure, scalability and supportability.

I helped build and support a large SPA (Single Page Application) using Backbone.js following MV* pattern. The application performed complex data analysis using MS SQL, C# Web API, plot.ly for web visualization of various plots (bar, scatter, box, line, histogram, hybrid), and DataTables for detailed data display.

I converted multiple applications and libraries from .NET Framework 4.x to .NET Core to enable them to run under Linux.

I created various data processing applications to replace legacy applications and improved data processing speed. The new applications were written in C# with multi-threading and thread queuing to allow a single server, running a single application instance to process a magnitude more data than the legacy solution could with multiple concurrent servers.

Primary technologies and skills: C#, .NET Core, MS SQL, Web API, ReactJS, Amazon AWS GovCloud, Docker, JSON, HTML5/CSS, JavaScript, plot.ly, jQuery, Backbone.js, Underscore.js, Handlebars.js, Selenium, Git (Github Enterprise), Jira, Crucible, Jenkins

Lead Software Engineer

Dec 2012 - Jul 2015

Provide Commerce / FTD - San Diego, CA

Hands-on manager and technical lead managing a 7 member development team responsible for maintaining and building new features for the company e-Commerce web platform. The platform provided a marketing and product ordering system for multiple brands including proflowers.com, berries.com, personalcreations.com, proplants.com, and cherrymoonfarms.com. Using an N-tier software architecture, my team leveraged the existing legacy web platform to create a new fully responsive version of the web application. My team's primary responsibility was the product details page which was developed as a SPA (Single Page Application). The product page was built to dynamically change to display any type of product from flowers to complex products with text and photo personalization without refreshing the web page. In an effort to create the most effective interface for customers, many new features and optimizations were added as an A/B/Multivariate user testing with the winning site test becoming a permanent feature. Many performance enhancements were implemented using asynchronous content loading technologies. An in-house automated test platform was developed and using Selenium as the core test engine.

The team followed the Scrum (agile) development methodology. I worked closely with the team scrum master and product owner planning product improvements and finding ways to continuously improve our team processes. Following the tenets of Scrum, I guided the team in implementing new mentoring, cross-training and code review processes which encouraged closer teamwork and fewer bugs in released code. I served as a mentor and coach while working alongside the team retaining a close understanding of all changes to the architecture and code base.

Primary technologies: C# ASP.NET, JavaScript (using MVC/MV*), MS SQL, JQuery, Backbone.js, Underscore.js, HTML5, LESS, CSS, Mustache/Handlebars templates, WCF, AJAX via .Net Web API using JSON, Visual Studio 2010/2013, Microsoft TFS, moq .Net mocking framework, Selenium web test automation framework

Lead Software Developer / Software Development Manager

Jul 2011 - Nov 2012

Anderson Direct Marketing - Poway, CA

Hands-on manager: directly managed a 6 member team that was primarily responsible for creating and maintaining internal and client web applications, micro-sites, and HTML emails. After initially joining the company as the lead software developer with technical leadership responsibilities, I built the software development department from the ground up. Starting with a single original developer, I recruited a diverse team of skilled software engineers to fulfill the increasing needs of the company and clients. I designed and implemented various new processes including detailed coding standards (C#, SQL, HTML, CSS), database design standards, source control, internal code library and framework, code reviews, implementation/deployment process, development/test server environment, project management software (activeCollab), Quality Assurance, and time tracking. I established open communication and cross-training within the department by holding team meetings and individual 1-1 meetings. Many of these accomplishments were completed within the first 5 months.

Worked closely with the director of interactive to create and implement a full life cycle software development process. The process improved communications with internal and external clients and reduced the development effort and overall cost for all projects.

Primary technologies: C# ASP.NET 4.0, MS SQL, HTML5, CSS, JavaScript, JQuery, HTML emails, software QA

Senior Software Developer

Mar 2004 - Jul 2011

Zions Bancorporation/Amegy Bank - Houston, TX

Senior software developer and lead software designer responsible for leading development teams to create many high security applications. Projects included secure Credit Card and eCheck web applications/shopping carts for corporate and government customers, web-based loan management software, and other internal web-base applications using NTLM and multifactor authentication. I worked closely with the marketing department to maintain the company's internet and intranet web sites including marketing campaigns, user interface design, and graphics. The primary technologies used were C# ASP.NET, MS SQL, JavaScript, AJAX, Crystal Reports, and Photoshop. Responsible for developing internal C# libraries and .NET web controls, maintaining team coding standards, and performing code reviews. Involved in full life cycle design and development and migrating legacy classic ASP applications to ASP.NET. A major focus was to develop dynamic reusable web products to be licensed to multiple customers with no code modification or redeployment. Responsible for gathering requirements, creating design documents and giving presentations. Collaborative development using VSS (Visual Source Safe).

Software Developer/Designer (contract)

Mar 2002 - Mar 2004

El Paso Energy Corporation - Houston, TX

Integral part of a large development team (60+ members). Fast paced full cycle design and development of an internal web-based oil and gas production accounting system. Major focus was on the tax and regulator reporting, gas supply and flow control modules, and technical subsystems providing information consolidation and inter-modules information sharing. Created comprehensive design and layout documents for C++/SQL processes, SQL database tables, database triggers, Crystal Reports, and user interface. Worked with a team of developers to write process component DLLs using C++ with QFC/MFC and embedded SQL. Collaborative development using VSS (Visual Source Safe).

Senior Software Developer

Jul 2001 - Oct 2001

Savatech Inc. - Houston, TX

Developed public web sites using ASP, SQL, MySQL, JavaScript, HTML, CSS, SSI. Developed C++ IIS ISAPI web filter DLL and internal company libraries including Zip/Unzip and FTP client functionality.

Software Developer (contract)

Oct 2000 - May 2001

i360 - Houston, TX

Classic ASP/SQL, VB web development, hosting/collocation company. Conversion from MS Access programs to ASP/SQL. Modified and integrated existing MS Access Programs with VB and ASP. Intranet application development in ASP/SQL. SQL and U/SQL ODBC databases used in ASP program to generate complex AR reports. Developed C++ ActiveX web component used by an ASP intranet application to control printer parameters. HTML/DHTML, CSS, dynamic JavaScript web applications.

CTO, Software Developer, and System Administrator

Jul 1999 - Oct 2000

MindZipper Networks Inc. - Houston, TX

CTO for ISP/web hosting/collocation company. Maintained network and managed contract engineering resources. Developed ASP/SQL, Visual Basic software. Worked on many internet and intranet web sites to provide custom solutions for clients. Used ODBC to connect to Access databases and local and remote SQL servers for secure online store orders and product lists. ASP, VB, ODBC and C++ used for back end data manipulations. Created HTML, CSS, JavaScript and dynamic JavaScript web applications. Linux and Windows 2000 web/SQL/DNS server administrator.

Lead Software Developer (contract)

Jul 1998 - Sep 2000

BZ Technologies - Houston, TX

Lead C developer for handheld barcode scanning device software and remote Handheld to PC communications. Applications included multi-branch retail store inventory system. MS Access used for database systems; VB and ODBC used for PC-side modem communications application. C with HHP Dolphin API used to program handheld device.

Lead Software Developer (contract)

Nov 1998 - Aug 2009

Ad Valorem Records, Inc. - Houston, TX

Lead C#.NET and C developer for handheld device software used in gas, electric and water meter reading. C developer for PC side integration of handheld device communications and data transformation. Cobol database system adaptor written in C. VB and ODBC used for PC-side direct serial communications application. C with HHP Dolphin API used to program handheld device.

Software Developer and System Administrator (contract)

1996 - 2008

The Center for Integrated Medicine - Houston, TX

Designed and developed a custom network Patient management system in MS Access and Visual Basic. Built and maintained company web site, LAN and PCs. Provided general computer support.

Software Developer and System Administrator

Jun 1995 - Jun 1998

ElectraSoft - Missouri City, TX

Win32 C++ developer for fax software application "FaxMail Network for Windows". Worked on backend logic and serial communications. Designed C++ classes for internal objects. DDE programming for internal program module communications. Designed/developed customer database solution. Provided network administration and PC support.