

BW Soft, Inc.

github.com/bwsoftinc**Sr. / Principle Software and Systems Developer**

Over 15 years of broad professional experience in software and systems design and development. A passionate and avid coder with ability to apply technical design and skills to solve business problems. Experienced at rapid pace development with superior degree of accuracy built upon experience, ability to anticipate problems, and attention to detail. Full stack knowledge with deep experience in software design and architecture, C#, javascript, T-SQL, devops models in startup and enterprise environments using SOA, n-tier, restful API, and microservice architectures. A business owner understanding the value of being a self-starter, self-directed and delivering results with a sense of urgency. Take initiative and ownership to develop solutions for needs of business and needs of customers. Able to communicate and develop a vision to navigate the high level of a business problem as well as dig deep on the micro levels of the technical problem solving. Communicate and deliver results from inception to production readiness, while mentoring others. Architect well tested solutions with focus on automation, performance and simplicity while meeting dynamic demands. Practiced in Scrum/Agile methodology, proficient in a variety of languages, tool sets and platforms. Continue to increase a diverse background, pick up new skills quickly, yet recognize what makes economic sense and still works irrespective of trendiness. A team player ready to collaborate and develop business solutions.

Experience includes:

- | | | |
|-------------------------------|---------------------------|-------------------------|
| • TFS, SVN, GIT, VisualStudio | • NodeJS, Angular, jQuery | • OOP, Design Patterns |
| • CI/CD build release devops | • C#, VB.Net, Linq, MVC | • Multi-Threading async |
| • T-SQL, SSIS, SSMS, SSSB | • MVVM, WebAPI, Swagger | • Sockets, TCP |
| • Entity Framework, CSLA | • HTML5, AJAX, Knockout | • Messaging / Queuing |
| • COM, ActiveX, Native DLL's | • Bootstrap, CSS, Nuget | • Logging / Splunk |
| • AppFabric, Redis Cache | • WCF, XML, JSON, SOAP | • Saas, CRM Models |
| • WinForms, WebForms | • Win32, Windows API | • C/C++, Java, MySQL |
| • ASP, VB6, VBA, ASP.Net | • ActiveReports, OpenXML | • PHP, Ruby, Python |
| • IIS, Load balancing / proxy | • Reports, BIRT Reports | • User Interface Design |

PROFESSIONAL EXPERIENCE:

Compass Group (compass-usa.com), Mobile AL, San Diego CA

Apr 2012 to Current

Hands on in every aspect of "Webtrition.com" product used in all areas of business for meal planning, forecasting, recipe creation, recipe preparation, cost analysis, nutrient analysis, USDA and FDA compliance in foodservice sectors of healthcare, senior living, higher education, retail dining, public school systems, corporate dining, sporting venues. Work with Sr Business stakeholders on multi-year initiative to architect, design, and develop new systems while integrating with and maintaining legacy systems. Principal developer tasked with re-designing and developing back end systems feeding internal and external Webtrition and Webtrition-powered systems. Demonstrated skills and ability at the highest level of talent to earn the confidence of others to design and implement new systems.

- Generally regarded as SME on the technical team of "Webtrition" business knowledge and all technical and programming details. Approached as the Go-To person on all issues large on small from Jr Developer to Sr Directors. Awarded and recognized 3 times across teams with certificates of achievements for exemplary performance.

- Re-designed and developed database schema from scratch, outperforming legacy system in concurrency, contention, speed and efficiency while retaining existing features and adding additional business needs.
- Tuned indexes, write new stored procs, rewrite old stored procs, optimize old stored procs used in data maintenance to minimize job time and resource consumption and maximize resource availability for users.
- Architected, designed and implemented Restful internal web api and external web wervices as windows services from scratch. Determine needs of front end and integration partners from business requirements, design and develop api's to support requirements.
- Analyze and decide appropriate code regions for business intelligence implementations in the front end and back end, communicate and collaborate with front end team what their responsibilities would be and how to use the api's to achieve the business needs.
- Implemented logging of all requests for dashboard usage metrics, and error monitoring.
- Utilized self-documenting api pages generated and updated continuously on builds with customized Swagger-ui.
- Fixed bugs in open source libraries Angular and DotNetCas to not be held captive by 3rd party development schedules.
- Automated build and deploy, testing and code quality analysis, implemented CI and CD and best practices.
- Integrate new code with existing code base, refactor code for maintainability, optimize and performance tune existing code and stored procedures, write unit tests, test cases, integration tests, regression tests.
- Create reports writing and using T-SQL queries, stored procedures, Active Reports, OpenXML (the Microsoft office file format), and Birt reporting frameworks. Create and use api's to feed reporting data.
- Designed and implemented multiple application authentication and user integration with active directory domain controllers and single sign on solutions for user login to multiple apps at once.
- Designed and developed OpenXML reporting framework and API with code generation from excel templates. Trained other developers on using API for report generation.
- Routinely selected to contribute to other projects and teams to get caught up, the team member approachable by all for ideas and willingness to help others and ability to apply standards, absorb deeper and more complete understandings of systems and software workings.
- Review code for performance, efficiency, business requirements, security and mentor junior developers.

eLead CRM (eleadcrm.com), Niceville, FL

Jan 2011 to Mar 2012

Software engineer responsible for technical design, development and mentoring other developers.

- Develop and maintain expansive CRM/Sales/Data-Mining SAAS site used by thousands of corporate and auto dealerships. Software comprised of website and WCF services to run and manage operations, sales, trade, loan, vehicle maintenance and customer relations. Custom software integration interfaces with 100's of partner, dealer and manufacturer web sites and databases in the auto industry. Interface with PBX phone systems with call records, duration and voice recordings of customer contact available through web interface.
- Add new features in UI layer in classic asp, asp.net c#, javascript, jquery and json. Mirrored functionality on C# Winforms client; developed new and updated existing business layer objects with and without CSLA data framework in C# and in T-SQL stored procedures.
- Redesign background processes running in VB6 to .Net converted classic ASP pages to .Net.
- Design and develop secure WCF web services

Freelance consultant, Pensacola, FL

Aug 2009 to Mar 2011

Solutions architect and developer - deliver variety of software from proof of concept to final acceptance to meet customer's needs. Bid and won many government and private sector projects through vWorker.com where ranked in top <1% of around 300,000 developers.

- **PDF API Library** – Multi-phase project for reading, writing, editing, and converting PDF Files. Created as an API library in C# to parse file structure and extract, decode, edit or replace elements within PDF documents and convert entire PDF document to other document formats such as text, HTML, Word Document or Images. Can completely replace the Adobe PDF Reader software for rendering to screen while overcoming Adobe Reader limitations, and adding additional features.
- **Customer / Vendor record management systems migration** – Migrated records system from legacy DBF to MySQL. Designed new query system to search, navigate, sort and display items, customers, vendors and orders using PHP.
- **Real estate property management web applications** – Integrated with the DotNetNuke framework (VB.Net); designed/developed four plugins to manage property inventory, client data, generate forms and email alerts, and track activities at properties using VB.Net, C# and ASP.Net.
- **Network/Sockets/Protocol programming**
 - Design and develop multi-threaded automation web client. Implemented in C# Winforms and designed a custom scripting language and interpreter based on XML to script automation tasks for the automation client software.
 - Design and develop targeted advertising component in C# winforms for bundling in other 3rd party windows software. Design a backend interface to all popular browsers to capture URL's being browsed. Developed web service for ad component in PHP/MySQL to gather relevant ads from variety of ad feeds, select best paying ad, and credit the 3rd party affiliate when ad is displayed or clicked.
 - Developed standalone search engine in PHP with backend UDP client to communicate over a largely undocumented EDonkey protocol. Protocol reverse-engineered by testing.
 - Design and develop a multi-threaded, multisession telnet client and user interface in C# Winforms to store server ip's and command scripts to send to one or many servers with a single click.
- **Software components and utilities**
 - Design and develop windows software installer and uninstaller component.
 - Design and develop utility to import shockwave flash files (.swf) set play options and export executable code (.exe) as a standalone executable with the flash content.
 - Developed embedded resource editor for Packaged Executable format
 - Design and develop a web server component for IIS that downloads and renders a snapshot of the webpage to an image to save to disk or serve over a WCF service.
 - Extended Google Ajax API's to randomize RSS feeds
 - Extended and optimized Google Maps marker clusterer

U.S. Army – Active Duty Ft. Riley, KS

Apr 2005 to Aug 2009

Enlisted service in logistics, budget analysis, procurement, and purchasing as unit supply specialist. Challenged to take on additional technology roles developing software, maintaining databases, system/server administration and support. Honorably discharged from active duty August 2009, maintained Inactive Reserve status through March 2013.

- **Principle Software Developer/Database administrator**

- Maintained and upgraded Ft. Riley deployment tracker database (SQL) and front end user interface (VB6). Centralized all of training, deployment, and personal records for each soldier deploying to Iraq and Afghanistan. Software used by additional agencies such as Family Readiness Groups and Red-Cross.
- Developed Iraqi intelligence and mission tracking database (SQL) and analysis software (C#/Winforms). Recorded mission objectives, dates, vehicles, weapons, personnel, ammo, fuel, enemy contact and generated reports and statistical analysis of datapoints for future mission planning.
- Developed inventory management database (SQL) and software front-end (C#/Winforms). Tracked location and responsible parties of military property.
- Developed weaponry tracking database (SQL) and front end (C#/Winforms) to automate the operations of an arms room at the company level. Assisted and eased inventory, check out and audit operations.

IBM Boca Raton, FL

Jan-Mar 2005

Software developer and writer of interactive help/technical documentation for the alphaWorks division on a programming language in development, X+V (XML + Voice). Duties included extending the Rational Rose development environment for the X+V language and documentation on using new IDE tools for X+V development.

- Expanded IBM's development environment framework product "Rational Rose" to incorporate new tools and dialogs for development of X+V code.
- Wrote documentation help files and interactive help on using Rational Rose for X+V development.

RS&A Consulting San Diego, CA

Feb-Oct 2004

IT consulting company with diverse capabilities. Joined this team of consultants and brought expertise in software and web applications development. Duties included client facing and end to end solution delivery.

- **E-Commerce Internet Applications** - Custom user account management, shopping carts and secure payment processing in ASP, Cold Fusion and PHP. Merchant gateways and Paypal.
- **Win32 API Client/Server Applications** - User interface design, remote database, product key authentication, custom protocol over sockets using C++, visual studio MFC and COM.
- **Web Applications** - Custom calendars, user management, usage tracking, search engines, rotating advertisements in ASP, Cold Fusion and PHP.

Freelance Consultant/Web Developer San Diego, CA

Jan 2001 to Dec 2004

Designed, updated and maintained a wide variety of web applications on sites with diverse server configurations and web languages. Part-time work while attending UCSD.

- JPEG image manipulation web application
- User login/account management and administration
- Content management and administration
- Newsletter/promotional email application
- File upload/download interfaces
- Events Calendar application
- Site-wide roster/community application (social networking)
- Extended existing PHPNuke modules
- Discussion forum application

BakBone Software San Diego, CA

Aug 2000 to Jan 2001

A webmaster and application developer - responsible for creating a secure global employee portal website. Gathered requirements from users and management, developed, tested and deployed the systems to production. Trained additional web developer. Programming languages included ColdFusion, ASP, SQL (full time at first then part time)

- **User management application** - Manage website users and allow/deny access to various web apps on portal.
- **Travel booking and expense reimbursement application** - Centralized the company's travel request, approval, and reimbursement process
- **Order Processing application** - Centralized all order processing with administrative capabilities to manage customer data, order placement and fulfillment, and order tracking.
- **Software and documentation repository management application** - Custom web interface to existing file base of software builds and documentation
- **Centralized password management application** - Created scripts and a webpage capable of propagating password changes to all servers, in an environment before active directory.

SearchPower, Inc. Carlsbad, CA

2000

Provided technical support and website updates on a part-time basis while attending UCSD.

- **Tech Support** - Hardware and software installation, network configuration, troubleshooting.
- **Webmaster** - Updated website content using HTML, CSS and Javascript.

EDUCATION:

University of California, San Diego – San Diego, California (1998-2002)

- 192 credit hours towards B.S. in Computer Engineering

CERTIFICATIONS, AWARDS AND DISTINCTIONS:

Army Information Technology certifications (Ft. Gordon, GA 2008-2009)

- Information Assurance Security Officer Certification
- Army G3 Computer Security Training
- Firewalls and VPN's
- Windows Operating systems and TCP/IP

Veteran of war preference, 5-point non-disabled (earned status in 2009)

Suicide prevention counselor (2008)

Deployed in support of Operation Iraqi Freedom (held interim secret clearance 2006-2007)

Combat Lifesaver (2006)

Distinguished Honor Graduate, Army advanced individual training (2005)

Eagle Scout (1997)