KEITH WANLESS

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PROFESSIONAL PROFILE

Team oriented project manager and senior full stack developer with extensive experience in all phases of Web site development team management, strategic and tactical planning, and e-commerce. Works with marketing team and other key stakeholders to build a strong and profitable Web presence. Strong written and verbal communication, proofreading and editing skills. Exceptional customer service skills for both internal and external clients.

TECHNICAL SKILLS / TOOLS

Languages: ColdFusion, SQL, JavaScript, AJAX, D/X/HTML, CSS, PHP
Tools: *Macromedia/Adobe:* Dreamweaver, ColdFusion Builder & Studio, ColdFusion Server and Administrator, Acrobat, Photoshop, Photoshop Elements
Microsoft: Office Professional, SQL Server, Visual Studio, Internet Information Server, Project
Other: ProjectLibre (open source Microsoft Project alternative), Gimp, various FTP tools, iMIS Association Management System, Citrix, VPN, Eclipse, Aptana Studio, phpMyAdmin, MySQL Workbench, WordPress Blog/Publishing platform, Vault version control, TortoiseSVN and TortoiseGit repository management systems
Database: Microsoft SQL Server, Access, MySQL, PostgreSQL, Oracle
Operating System: Windows, Windows Server

PROFESSIONAL EXPERIENCE

U.S. Fish and Wildlife Service, Office of Law Enforcement, IT Office   **Nov 2019 – Present**
Senior Software Developer (under contract through Astor & Sanders Corporation, then Mindbank Inc.)
Web and database development for the Fish and Wildlife Service (FWS) Office of Law Enforcement (OLE). Full responsibility for the web presence and database of the FWS Division of Refuge Law Enforcement (RLE). Public Trust clearance.

Significant Accomplishments for RLE
- Complete rework of the Firearms Qualification Module
  When RLE changed handgun models, they needed to update their Firearm Qualification page to accommodate the change. The page and its underlying JavaScript were overly complicated. I made the code terser, simplified the JavaScript calls to the database, and made the system dynamic rather than hard-coded so that future changes to handgun models will be simple. I created functionality wherein officers can record their primary weapons so that those serial numbers auto-populate in the Training Course page. I improved the look and design, and simplified the code, of the PDF generator for Firearms Training Courses. I rebuilt and improved the weekly notification script and web page that informs both supervisory and field officers of pending qualification lapses.
- Creation, improvement and maintenance of the Administratively Uncontrollable Overtime (AUO) Module
  RLE requested functionality to track situations where officers must work overtime which has not been previously approved. I built a web module and underlying database from scratch that records their work schedule, their AUO hours, and days to exclude from weekly AUO counts. It includes monthly and annual reports signed by field officers, Patrol Captains and Regional Chiefs for the officers' permanent employment records, and a PDF generator for downloading and printing those reports. A recent addition has given supervisory officers the ability to disapprove a monthly report and provide details of what the submitting officer must change for approval. The AUO module is one of the most widely and frequently used features of the RLE website.
  I created the AUO database and website to be completely standalone, so the module can easily be ported for use by other divisions within FWS, or other bureaus of DOI. I ported the system for Bureau of Land Management use in the fall of 2022.
- Major upgrades to the Incident Management Module
  The module in which officers record incidents and violations on RLE property was unwieldy, difficult to use, and prone to page crashes. I simplified the underlying code on many pages, updated the ColdFusion components that communicate with the database to eliminate errors, and built tables and code to store historical information about incidents, suspects and other associated individuals. I greatly improved the generator of Incident PDFs that officers provide to federal prosecutors, and the generator of photo attachments that are also provided to prosecutors. Only about 8% of incidents had historical records of changes, while all incidents will have those historical records moving forward.
  I added submit buttons to the top of all search pages therein to prevent the necessity of scrolling by officers in the field, and functionality to upload court orders regarding suspects for easy viewing by those officers.

- Elimination of large numbers of system errors
  At the time of my arrival in the IT office, the RLE system generated many dozens of error messages resulting from page crashes every day. I have eliminated the majority of those crashes and error messages, where we now see just a few per week. When an error message arrives, I endeavor to repair the cause within one work day, and inform the officer who experienced a page crash that the error will no longer occur.

Significant Accomplishments for OLE
- Upgrades and repairs to Special Agent Field Training Evaluation Program (SA-FTEP) system
  OLE's training program module was buggy and outdated. I removed nested inline frames, cleaned up queries, altered the display of data, and repaired flaws in the way the program calculated whether or not to present the option to create a new report for a week or month. No problems or errors have been reported by the SA-FTEP program manager since January 2022.
- Upgrades and repairs to Property Tracking system
  OLE hired an outside company to run property reports for them. In preparation for this, I was asked to make consistent all combinations of firearm make, model and type in the database. Years of free data entry had populated the database with hundreds of misspelled firearm records and brand-model-type mismatches. Following this effort, I created spreadsheet download links for the reporting company's use.
- Ported the RLE Firearms module for OLE use in the spring of 2023. An armorer / weapons maintenance module is currently under construction.

National Water Quality Laboratory, U.S. Geological Survey   Aug 2019 – Oct 2019
Web Application Programmer III (under contract through Cherokee Nation Businesses)
Study, develop, maintain, and improve the lab's internal web presence, built using customized, off-the-shelf software called Laboratory Information Management System (LIMS). Pointed out all the flaws I perceived in the system – links pointing to the wrong places, things that didn't work as expected or at all, error messages. Studied and learned the LIMS custom scripting language. Studied the underlying Oracle database, normalizing it where possible, developing new and updating and simplifying existing stored procedures. Worked with IT team and management to develop a roadmap for short- and long-term improvement to the system.
Cherokee Nation Businesses lost their contract after a month. I left for the U.S. Fish and Wildlife Service after 9 weeks.

Charter Communications   Mar 2018 – Aug 2018
Software Developer (under contract through KForce Inc.)
Maintain multiple legacy Time Warner Cable web applications.

US Department of the Interior Safety Office   July 2011 – Apr 2017
Project Manager / Sr. Developer (under contract through New Tech Solutions, Inc.)
Project manager, developer and contact for DOI's Safety Management Information System (SMIS) Web site Exposure Assessment (EA) and Inspection and Abatement System (IAS) modules. The modules were built in ColdFusion, with a large amount of JavaScript and CFAJAX for a dynamic user experience, and an underlying SQL Server 2008 R2 / 2014 database.
- Database and site development for the EA addition to SMIS. The EA module catalogs and presents risks to which staff at DOI facilities are exposed during the course of work, allowing safety managers throughout the country to gauge risks to which staff in similar positions at their facilities may be exposed.
- Reformatted IAS Web site for the USGS to an enterprise system for use by all DOI bureaus. Normalized an underlying database of hundreds of tables, simplified overcomplicated stored procedures and custom functions, merged the USGS and SMIS databases, translated the site from Visual Basic 6 to ColdFusion 9 and 10, and developed a series of reporting modules.
- Prioritized, processed and developed all customer requests for enhancements and new functionality for both modules. Semi-monthly meetings with customer stakeholders to address ideas for improvements, progress on outstanding items, and other matters of importance.

ADT Security Systems   Jan 2011 – July 2011
Sr. Developer / Tech Lead (under contract through Tata Consultancy Services)
Designed, developed and maintained Web applications using ColdFusion, JavaScript, CFAJAX, CSS, and D/X/HTML. Developed new and upgraded existing ColdFusion components and modules. Developed, optimized, and maintained underlying SQL Server databases. Created, maintained and updated stored procedures, triggers and inline queries. Worked with stakeholders to determine best practices and approaches to unique coding challenges. Assisted, mentored and managed junior developers, including team of offshore developers. Conducted code reviews.

EDUCATION - BA, University of Colorado