

# Anita M. Wilcox

## SUMMARY:

More than twenty years of experience in the software industry, working on projects ranging from defense-related embedded systems to internet/web-based application development. Strengths include the ability to see the “big picture” due to exposure to many different technologies, algorithms, and environments; adaptability to the demands of a given situation; many years of experience with the Internet and related technologies; short learning curve for new technologies; exposure to all aspects of the SDLC; familiarity with modern software development methodologies like Agile, Scrum, iterative development, OOP, and extreme programming; and excellent written and verbal communication skills, including documentation and mentoring of junior members of the team.

## LANGUAGES:

Perl (Unix and Windows-based), PHP, Ajax, jQuery, Java, JSP, SQL, HTML/CGI, JavaScript/DHTML, C, Ada, Pascal, Unix shell scripting

## OPERATING SYSTEMS:

Microsoft Windows, UNIX (including Solaris, BSD, AIX, HP-UX, DEC Unix, SunOS, Linux, SGI), Android

## SOFTWARE:

Oracle, MySQL, MS SQL Server, DB2, Sybase, MySQL, PostgreSQL, Access, Apache web server, Dreamweaver, Adobe Photoshop, Adobe Acrobat, Visio, version control tools (CVS, SCCS, RCS, VSS, Clearcase, DSEE, Subversion/SVN, Perforce, Git), MS Office, Dragon NaturallySpeaking, Rational IDE, KnowledgeKinetics Portal Server, ClearQuest, Remedy, Visual Studio, Eclipse IDE, Maven, Tomcat, Resin, Oracle Reports

## HARDWARE:

PC (many varieties), Sun/Solaris Workstation, HP 9000, IBM RS/6000 Workstation, Apollo Workstation, Silicon Graphics, DEC Alpha, Cisco Routers, VAX, IBM mainframes, printers, print servers, scanners, routers, and other networking and computer hardware

## EDUCATION:

Boston University, Boston, MA  
BS Electrical Engineering

**Additional Training:** Data Warehousing & Data Mining, Java Programming, C++ Programming, Digital Signal Processing, Radar Technology, HP-UX System Administration, Proposal Writing

## OTHER:

### Additional Projects:

- **Violette Enterprises:** (*own company-ongoing*) Designed and built a database and corresponding applications to manage a collection of vintage items and online sales/purchases of items on online auction and ecommerce sites such as eBay, Amazon, and Etsy. Development is done on PostgreSQL, with Perl, Ajax (jQuery), SQL, shell scripting, and HTML.

- **Ratio Sato Pty:** (2012) Android mobile application development to support a startup company in the mobile software services space. The development platform and environment were Java, Android API, Eclipse IDE, Cassandra data storage, Tomcat web services, Maven build tool, Nexus Maven repository, Git/GitHub.

### **Some Experience/Familiarity With:**

Oracle Developer 2000, Oracle Reports, Visual Café, Weblogic, Websphere, .NET, C#.NET, VB.NET, ASP.NET, Fortran, Cobol, APL, Unix shell scripting (ksh, csh, bash), Cisco (Version 11.x), MS Access, Flash, PowerBuilder, Erwin, S-Designer/Power Designer, MS Powerpoint, MS Project, MS Excel, C, C++

### **Security Clearance: \*\* currently inactive \*\***

SECRET - first acquired 1992, was being reactivated in 2003-2004, but is currently inactive/expired

### **EXPERIENCE:**

*\* Note: Unless otherwise specified, all entries are contract/consulting positions.*

- **Senior Software Engineer**  
**RetireCare Consulting (April 2014 - present) (part-time/freelance)(health care)**
  - Coding and architecting enterprise solutions for a health care web application.
  - Specifying hardware and software requirements and refactoring existing code.
  - Platforms & Technologies: Microsoft SQL, Visual Studio, PHP, .Net, HTML, Javascript, CSS
- **Senior Engineer**  
**ChipWorks (April 2013 - present) (part-time/off-hours)(patent analysis)**
  - Analyzing, interpreting, and categorizing technology patents.
  - Applying patent intelligence to technology products to determine potential conflict.
  - Platforms & Technologies: various
- **Owner**  
**Violette Enterprises (2004 - present) (own company-ongoing)**
  - Online retail utilizing online auction and ecommerce venues such as eBay, Amazon, Etsy, and others.
  - Designed and built a database and corresponding applications to manage a collection of vintage items and online sales/purchases of items.
  - Platforms & Technologies: PostgreSQL, with Perl, Ajax (jQuery), SQL, and HTML
- **Senior Software Engineer**  
**Raytheon (November 2012 – February 2013) (defense)**
  - Performed development on web applications to assist companies with management, tracking, and reporting of cyber threats and online security breaches.
  - Platforms & Technologies: Windows 7, Linux, PostgreSQL, Perl, Eclipse, Javascript, jQuery, HTML, CSS, Mojolicious (Perl MVC framework)
- **Senior Software Engineer**  
**Broadridge – New River (March 2011 – August 2012) (financial services)**
  - Designed and developed software tools to assist financial companies with compliance issues and management of annuity & mutual fund prospectus delivery.
  - Platforms & Technologies: Windows 7 & Server, Oracle, SQL Server, Perl, Microsoft Visual Studio 2010, PL/SQL Developer, Windows XP
- **Capacity Software Engineer**  
**Comcast (August 2010 –March 2011) (telecommunication)**

- Designed and developed a database and data warehouse to facilitate reporting on network hardware capacity metrics.
  - Designed and developed a web-based portal application to manage reporting, forecasting, and interactive updating of capacity information.
  - Maintained an ASP.NET and SQL server based reporting web site tool.
  - Wrote and maintained Unix shell scripts for handling automated processes (cron jobs) and for management of file processing.
  - Platforms & Technologies: Red Hat Linux, Windows XP, MySQL (5.0.77), PHP, Ajax, jQuery, Javascript, Perl, Apache, Adobe Dreamweaver CS5, SQL Server 2005, Microsoft Visual Studio 2010
- **Software Development Engineer**  
**Amazon.com (August 2009 – May 2010) (ecommerce/retail)**
    - Created and maintained software for financial analysis, data mining, and reporting for the Global Financial Systems group utilizing internal web services, databases, and data warehouse facilities.
    - Provided data and reporting for internal and external financial audit requests, writing code in Perl, Java, C++, Ruby, SQL, and Unix shell scripts (bash).
    - Contributed to a 68% decrease in the number of problem reports related to the financial processes and reporting.
    - Platform: Red Hat Linux, Windows Vista, Oracle (10g, 11g), Perl, Apollo/Brazil/Perforce source control, Apache, SQLPlus, C++, Java, Ruby, bash shell scripting, Remedy bug tracking, Viador reporting
- **Software Engineer**  
**Estee Lauder (May 2008 – November 2008) (ecommerce/retail)**
    - Developed object-oriented Perl software and web applications on multiple ecommerce web sites for major international cosmetics brands.
    - Built and maintained web pages using HTML, CSS, and Javascript
    - Wrote SQL code for data management and used Unix shell scripting for handling automation of scheduled jobs and processes.
    - Platform: Solaris, Windows XP, Apache, Oracle PL/SQL & Stored Procedures, CSS, Javascript, mod perl, XHTML, RCS Source Control
- **Software Developer**  
**Harvard University (December 2007 – May 2008) (education)**
    - Developed Perl & PHP software for an internal web-based application portal environment using object-oriented methodologies and web services.
    - Platform: Solaris, Windows XP, Apache web server, Oracle PL/SQL, CSS, Javascript, Java/JSP, Template Toolkit, XHTML, Ajax, Subversion
- **Interactive Developer**  
**EMI Strategic Marketing (September 2007 – October 2007) (advertising industry)**
    - Designed and developed database-driven reports in PHP for marketing metrics using object-oriented methodologies and design patterns (MVC specifically).
    - Platform: LAMP: Linux, Apache web server, MySQL, PHP, Windows XP, CSS, Javascript, Dreamweaver
- **Senior Software Engineer**  
**Numeric Investors (July 2006 – May 2007) (financial industry)**
    - Architected and developed software for an in-house OMS (Order Management System) to facilitate both domestic and international compliance tracking and reporting and to ensure the integrity of the financial data in the database.
    - Developed ETL processes to facilitate the merging/migration of two databases.
    - Platform: Sun Solaris, Windows XP, Sybase (SQL and Stored Procedures), Perl, SQL, Java, JSP (Tomcat), Apache web server, Clearcase Source Control

- **Senior Software Engineer**  
**Fidelity Investments (September 2005 – June 2006) (financial industry)**
  - Wrote software to parse and load transaction and log data from multiple sources in order to track potentially fraudulent accesses to customer accounts.
  - Contributed to user and systems documentation.
  - Wrote and maintained code in Perl and Unix shell scripting for management of automated processes (cron jobs), data collection, and logging.
  - Platform: AIX, Windows XP, DB2 database, Perl, SQL, Linux, SQL Server, Subversion Source Control
  
- **Software Engineer**  
**Verizon (April 2005 – August 2005) (telecommunications industry)**
  - Developed software to manage loading of data into a database.
  - Wrote patent applications for new technology developed by the group.
  - Platform: Sun Solaris, Windows XP, Perl
  
- **Software Developer**  
**Pharmetrics (January 2005 – April 2005) (pharmaceutical industry)**
  - Developed software to manage the encryption, processing, and transport of health care data in real time as it was received from providers.
  - Wrote code in Perl and Unix shell scripting for handling automated processing of the health care data and the cron jobs used for polling, sending, and receiving the data.
  - Platform: LAMP: Red Hat Linux, Perl, Sun Solaris, Windows XP, Unix Shell Scripting
  
- **Software Developer**  
**Au Bon Pain (November 2004 – January 2005) (food/retail)**
  - Enhanced MS SQL Server database stored procedures and packages.
  - Tuned complex SQL queries and ETL processes to increase performance of a very large (1Tb+) data warehouse system.
  - Platform: Windows 2000, MS SQL Server, Perl, transact-SQL(T-SQL)/stored procedures
  
- **Lead Software Engineer (direct position)**  
**Windmill International, Inc. (June 2003 – June 2004) (defense industry)**
  - Developed configuration management application in Java within a portal-based environment running on open source technologies (JBoss, Apache, MySQL).
  - Contributed to production of software development processes for the software group.
  - Contributed to the writing and editing of proposals.
  - Platform: Windows XP, MySQL, Apache, Java, SunOne IDE, KnowledgeKinetics Portal Server, JSP (Resin JSP engine)
  
- **Web Application Developer**  
**Pfizer (October 2001 – January 2002) (pharmaceutical industry)**
  - Developed and maintained code for a web-based clinical trial drug study data management application.
  - Updated and modified software for an administration application that managed the users and access privileges for the clinical data application.
  - Performed use-case modeling for a new Java clinical data management application.
  - Platform: Unix (Solaris), Oracle 8i (PL/SQL), Apache web server, CVS version control, Perl, Windows 2000
  
- **Software Developer**  
**Lionbridge (November 2000 – February 2001) (i18n/translation services)**

- Developed and maintained software for localization/internationalization of web sites and software applications.
  - Added new XML code to handle additional document formats.
  - Performed system administration tasks on two AIX servers to assist the group and to minimize customer support costs, using and maintaining Perl and Unix shell scripts.
  - Platform: Unix (AIX) and Windows NT/2000, Java, Perl, Apache web server
- **Web Designer/Application Developer**  
**Sun Microsystems (May 2000 – September 2000) (computer hardware & services)**
    - Managed and developed the content of an internal web site supporting the development efforts of a large software development project.
    - Wrote and maintained HTML and maintained shell scripts for automating builds and distribution of web page updates.
    - Mentored a summer intern.
    - Platform: Apache web server on Solaris 8, Forte IDE, Java, HTML, shell scripts
    - Developed software to demonstrate Web Based Enterprise Management (WBEM), a Java API for monitoring system status for distributed computer systems.
    - Platform: JDK 1.2 on Solaris 8
- **Web Architect/Webmaster**  
**Mercury Computer Systems (February 2000 – October 2000) (defense industry)**
    - Redesigned a large database-driven intranet system.
    - Created software and user documentation.
    - Developed a web-based application to support the Human Resources department.
    - Wrote code in Perl, PHP, SQL, and Unix shell scripts for managing the internal web site and automating logging and updates.
    - Responsible for the hiring and ongoing training of a junior team member.
    - Platform: Apache web server, Solaris, Perl, PHP, and MySQL
- **Internet Engineer**  
**Infornics (December 1999 – February 2000) (B2B e-commerce services)**
    - Developed software for a database-driven business-to-business (B2B) e-commerce web site – specifically, the Thomas Register online presence.
    - Platform: Apache web server, Solaris, Perl, mod\_perl, XML, Oracle PL/SQL
- **Software Consultant**  
**Ziff-Davis/ZDNet (August 1999 – October 1999) (computer industry - media)**
    - Created software to extract, parse, and load (ETL) product descriptions and information from various vendor sources into a database.
    - Wrote and maintained software in Perl, SQL, and Unix shell scripting (csh) for handling data and file management.
    - Platform: Apache web server, Solaris, Windows NT, Perl, SQL, MySQL
- **Software Consultant**  
**Hill, Holliday (August 1999) (advertising & marketing services)**
    - Developed software with Javascript for a web-based application.
    - Platform: Netscape web server, Windows NT, JavaScript/DHTML
- **Software Developer**  
**Parametric Technology (March 1999 – May 1999) (CAD software industry)**
    - Created and built a database-driven customer service web site.
    - Wrote code in Perl and SQL and made use of Unix shell scripts for automating polling processes for data updates.
    - Platform: Netscape web server, Solaris, Windows NT, Oracle, Perl CGI, HTML, SQL

- **Software Developer**  
**InUnity (September 1998 – January 1999) (financial services)**
  - Designed, developed, and documented a web-based interface to a mutual fund analysis request and prospectus fulfillment system.
  - Installed, designed, and implemented the Oracle database to support the application.
  - Platform: Windows NT, Microsoft IIS web server, Perl, Oracle, Javascript, HTML.
  
- **Software Developer**  
**Information Resources, Inc. (March 1998 – July 1998) (marketing services)**
  - Created and built a website to provide content for marketing customers as well as providing interfaces for users in the field, who collected and distributed sales and promotions data and reports.
  - Platform: HP-UX 10.2, Windows NT and Windows 98, Netscape web server, Oracle database and Developer/2000 tool, PL/SQL, Perl, HTML, JavaScript
  
- **Software Developer**  
**Fresenius Medical Care (January 1998 – March 1998) (health/medical services)**
  - Created an intranet application to allow secure web-based access to medical reports.
  - Platform: HP-UX 10.2, Windows NT 4.0, Perl, Java, Javascript, Netscape FastTrack web server, Oracle Web server, Oracle Reports Server, IQ Objects/SmartServer
  
- **Software Developer**  
**BJ's Wholesale (November 1997 – March 1998) (retail industry)**
  - Created multi-threaded software for management of data flow in a cash settlement processing system. Data was transported from Vax systems at retail store locations, and was then processed on AIX servers before being loaded to corporate IBM mainframes.
  - Wrote code in Perl and Unix shell scripting (csh, ksh) to provide process control, file management & verification, and database update capabilities to record processing status and to track errors.
  - Platform: IBM AIX, Perl, SQL, IBM mainframe
  
- **Software Engineer**  
**Digital Equipment Corp. (June 1997 – July 1997) (computer/software industry)**
  - Modified and debugged software to provide metrics for user activity for a corporate extranet web site.
  - Generated reports with WebTrends statistical software.
  - Wrote and maintained unix shell scripts and Perl code on a Digital Unix system for managing sales data.
  - Platform: NT, DEC Alpha, Digital Unix, Netscape web server, Perl, HTML
  
- **Software Engineer**  
**Sanders - Lockheed-Martin (October 1996 – June 1997) (defense industry)**
  - Developed software for an event-driven hardware diagnostic system.
  - Developed an object-oriented real-time system that provided an interface between low-level firmware and higher-level, graphical diagnostics software.
  - Participated in full SDLC and code review process.
  - Platform: Sun Workstation using Verdex Ada and Rational Apex CASE tool on Solaris.
  
- **Internet Consultant**  
**ArcSys Technologies (May 1996 – November 1997) (healthcare services)**
  - Specified and provisioned the technical solutions for internet requirements.
  - Configured and maintained internet, web and email services, including domain name hosting and management, web hosting, and email routing.

- Wrote and maintained Perl and Unix shell scripts for handling system administration processes.
  - Platform: Apache web server, BSDI Unix, HTML, shell scripts
- **Internet Engineer (*own company – web hosting & occasional freelance work*)**  
**UpLink Technologies (January 1995 – present)**
    - Installed, configured, and maintained servers running under Unix(BSDI), Solaris 8 for Intel, Red Hat Linux (Fedora), and Windows NT, 2000, XP, Vista, and Windows 7.
    - Specified hardware and software requirements for Internet services, as well as acquiring frame-relay, ISDN, and business broadband services from infrastructure and network providers.
    - Handled DNS management and hosting, including virtual web hosting for clients.
    - Managed and configured all internet hardware and software such as: Cisco 2511 router/terminal server, NetGear ISDN router, Linksys print server, DNS, sendmail, INN(newsgroup server), majordomo mailing list server, Oracle 8i database, MYSQL database, Apache web server, PostgreSQL database.
    - Wrote and maintained Perl and unix shell scripts for system administration tasks
    - Hired and managed one contract worker.
    - Platforms: BSDI, Solaris, Linux, LAMP, NT, 2000, XP, Vista, Perl, Java, HTML
- **Software Engineer**  
**Lockheed Sanders (March 1994 – January, 1995) (*defense industry*)**
    - Developed object-oriented software in Ada for a mission planning and tracking system for use by the US Air Force.
    - Developed code to test hardware systems and components.
    - Platform: SunOS, Verdex Ada
    - **Security Clearance: Secret**
- **Software Engineer**  
**Alphatech, Inc. (June 1993 – February 1994) (*defense industry*)**
    - Developed software using patented algorithms for a real-time software package that mapped facial movements tracked by video to a computer animation. ace.
    - Responsible for development of an object-oriented planning and management system and a statistical performance analysis package.
    - Platform: SGI (Silicon Graphics) Workstation, Ada, Windows, Borland C++
- **Software Engineer**  
**EML Research (February 1993 – May 1993) (*defense industry*)**
    - Developed object-oriented software for embedded systems used in the electric propulsion and braking system of the Bradley Fighting Vehicle.
    - Performed system administration of Sun Workstations and a small PC network.
    - Platform: Verdex Ada, Sun OS, Windows
- **Software Engineer**  
**AMETEK, Inc. (November 1992 – January 1993) (*aerospace industry*)**
    - Developed software for the engine vibration monitoring embedded systems used in the Boeing 777 aircraft.
    - Platform: Sun OS, DEC VAX, Verdex Ada
- **Software Engineer (*direct position*)**  
**General Electric (June 1989 – January 1992) (*defense industry*)**
    - Developed embedded systems software in for the graphics and radio communications subsystems of the M1A2 tank and the Bradley Fighting Vehicle.
    - Performed systems and network administration for a network of Apollo workstations and servers, as well as assorted PCs and test equipment.

- Platform: Apollo workstations, BSD, Apollo Domain OS, Windows, MSDOS, VAX VMS, HP-UX, Tektronix In-Circuit Emulator (ICE), Mil-Std 2167A, Verdex and VAX Ada, Interleaf, DSEE (version control), X-Windows
- **Software Engineer (*direct position*)**
  - General Signal - Drytek (December 1988 – June 1989) (*semiconductor industry*)**
  - Developed embedded systems software for the user interface and process control of semiconductor plasma etching equipment.
  - Platform: Sun OS, C