

# Paul Jay Ruderman

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## Summary of Skills & Experience

- Skilled web developer, working with PHP for 7 years, Perl for 10 years, Ruby for 2 years, JavaScript for 5 years (including Node.js for 1 year). CSS/Sass/Less, jQuery, bash, various templating engines (Twig, ERB, Haml, Mustache, Smarty, and others), XML and XSLT. Have also worked in Python, Scheme (LISP), Java, and C.
- 10 years developing applications using SQL relational databases, including MySQL, PostgreSQL, SQLite, Oracle, and Microsoft SQL Server. 3 years experience MySQL database administration.
- Strong problem-solving skills with experience analyzing processes and automating routine tasks to improve reliability, efficiency, and accuracy.
- Skilled at mining, compiling, analyzing and summarizing data from multiple sources.
- Experienced in team programming using Agile/Scrum development methodologies. Experienced with version-control systems (VCS) including Git and Subversion (SVN), online Agile tools like Jira, PivotalTracker, BaseCamp, Trello, and CodeClimate, and IDEs like Eclipse and RubyMine.
- Well-versed in MVC/MVW programming paradigms, test-driven development (TDD), single-page AJAX techniques, object-oriented programming (OOP). Have worked with several web application frameworks (WAF) including Ruby on Rails, Sinatra, Symfony and content management systems (CMS) including Drupal, WordPress, ExpressionEngine, and Mambo.
- Experienced in setting up and managing UNIX/Linux server environments. 7 years experience as a UNIX/Linux systems administrator, including Linux, Sun Solaris, and FreeBSD.
- Knowledgeable about IP networks and protocols. Managed one of the first state-wide networks in Vermont to provide Internet service to ISP customers.

## Work Experience

### PHP Front-End Software Developer at Library of Congress

June 2015 - January 2016  
Washington, D.C.

*Convergenz/Primescape/Artemis Consulting*

- Created the "Congress.gov Admin Tools" application, providing an interface for Congressional Research Service legislative specialists to classify, summarize, and cross-reference all bills, resolutions, and other daily actions in the U.S. Senate and House of Representatives for publication on Congress.gov. Work on this 3-person team (gathering requirements, writing stories, planning sprints, implementing features, and presenting results) has been recognized as the first successful use of Agile development at the Library of Congress.
- Created custom JavaScript interface elements including a drag-and-drop hierarchical category recording interface, a drag-and-drop task assignment calendar, WYSIWYG editor, and an automatically-updating task assignment inbox--using native JavaScript, third-party libraries and AJAX techniques in order to adhere to supplied user experience (UX) specifications.
- Created the front-end server-side portion of the application in the Model-View-Controller paradigm, using Symfony2, leveraging the framework's "services" dependency-injection feature to create custom data access layer to communicate with a RESTful API server (written in Python), handle session management, authenticate against the Library's central Active Directory service, and create a role-based access control system.

**Digital Archives Developer***United States Holocaust Memorial Museum, Inc.*

June 2013 - June 2015

Washington, D.C.

- Worked as the sole developer on a small, newly-formed team to organize and preserve the museum's newly-digitized archival content, and to make more of it available to the public.
- Implemented a JavaScript/jQuery-based document viewer, allowing patrons to explore digital scans of archival documents from the museum's various collections, read transcripts and translations, and zoom into high-definition images of the original document.
- Created an administration interface that allows digital archivists to browse archival volumes and assign digital asset files to their correct museum collection, enabling patrons to search for and view the assets on the web, along with relevant metadata like transcripts and translations.

**Application Developer at the National Democratic Institute***HireStrategy, Inc.*

September 2012 - May 2013

Washington, D.C.

- Created a system to tabulate incoming reports from election monitors on the ground for the 2013 Kenyan Presidential Election using PHP/Symfony. The monitors sent responses to election questionnaires via encoded SMS messages, which the system received, parsed, and tallied. The system sent an SMS reply for each submission, indicating success status for each question and prompting for corrections to invalid responses. The Institute used the real-time results to update the media and Kenyan government throughout the election, and ultimately to certify the final results.
- Maintained about 15 Drupal websites for remote offices, including applying security and feature updates, troubleshooting, and making requested enhancements.

**Web Application Developer at the U.S. Holocaust Memorial Museum***Aquent, Inc.*

March 2010 - April 2012

Washington, D.C.

- Worked with a dynamic team of content producers to communicate the Museum's mission to the public via a vast PHP-based website with many articles, videos, podcasts, microsites, online exhibits, and social media feeds.
- Isolated content and logic to transition the museum's main website to ExpressionEngine.
- Implemented a redesigned version of the "Children of the Lodz Ghetto" site, a crowdsourcing application enabling students and volunteers around the world to assist in deciphering and digitizing records of school children residing in the Lodz Ghetto during the Holocaust.
- Created an educational web application allowing visitors to view historical Holocaust photographs and add tags based on what they perceive, fostering critical thinking while providing feedback on audience understanding.

**Software Developer***Greystone, Inc.*

April 2008 - November 2009

Bend, Oregon

- Worked on a team of four programmers to produce a complex industry-specific PHP web product.
- Led a major product re-architecture to bolster foundations, remove legacy code, and isolate key business logic while adding new features.
- Designed and implemented a complex role-based access control (RBAC) system with an open-ended set of user relationship requirements.
- Increased team efficiency by designing and creating automated tools to speed software development and release deployment, eliminating time-consuming manual processes.

**Web Developer for the National Human Genome Research Institute**

October 2006 - April 2008  
Bethesda, Maryland

*Digicon, Inc.*

- Worked on a team of programmers at the National Human Genome Research Institute (NHGRI) to support scientific research of the human and animal genomes.
- Designed and implemented a "Compensatory Time for Travel" application, which helps government employees follow complicated leave time regulations by questioning them about their official travel activities using a decision tree, computing leave time earned, and tracking it as it is later used.
- Overhauled NHGRI's aging collection of internal government-facing web sites for each of the institute's individual cores (departments)--bringing them up to date with new content, a new unified format, and a new CSS-driven theme. Re-worked legacy CGI applications to separate Perl logic from HTML presentation, developing a custom MVC structure that utilized Template Toolkit in order to apply the site theme to these applications.
- Created web applications as needed, such as custom photo galleries, random ID generators for experiments, and online academic course application systems.

**Telephony Software Developer and Traffic Analyst**

August 2002 - October 2006  
Winooski, Vermont

*Sovernet Communications*

- Helped a small Vermont-wide ISP move into the CLEC (competitive local exchange carrier) market and become a local telephone company.
- Wrote and deployed Perl software to generate the new company's telephone bills by converting raw CDRs (call detail records) from telephone switching equipment.
- Created software tools in Perl to analyze and process records from other telephone companies to create required carrier-to-carrier bills, and then reconcile discrepancies.
- Developed a new "subscribers" area for the company's Mambo website to allow users to view their subscription, billing, and balance information, or request changes to their telephone or ISP service. The application uses Perl and Mambo to interface with the existing 3rd-party billing and in-house provisioning system.
- Developed call center monitoring software in Perl to probe Cisco VoIP telephone equipment, display call queue status on a wallboard, and alert managers to call queue congestion via status displays and Jabber (XMPP) instant messages.

## Education

Bachelor of Science in Computer Science

University of Vermont, Graduated 1999

- Computer Science Major
- Music Minor
- Spanish Language Concentration
- Alpha Pi Epsilon, Computer Science Honor Society