

# Paul Jay Ruderman

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Skilled full-stack web application engineer—both front-end and server-side—creating powerful and compelling websites from conception to finished implementation, with an emphasis on concise, maintainable code for the long-term.

## Technical Skills & Expertise

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| <b>Languages:</b>                                    | JavaScript, PHP, Ruby, Perl, Python, Bash   |
| <b>Web UI:</b>                                       | HTML5, CSS3, jQuery, Bootstrap, Vue.js, React, Sass/Less, AJAX, JSON, XML, XSLT, RESTful APIs, CDNs   |
| <b>SQL Databases:</b>                                | MySQL, PostgreSQL, SQLite, SQL Server, Oracle, ORMs (Doctrine, EloquentORM, ActiveRecord)   |
| <b>Frameworks and CMS:</b>                           | Laravel, Symfony, FuelPHP, Drupal, Ruby on Rails, Sinatra, ExpressionEngine   |
| <b>Sysadmin and DevOps:</b>                          | Server setup, AWS, Apache, Nginx, SSH, DNS, Git, Subversion, process automation, deploy tools, db migrations, Jenkins   |
| <b>Patterns and Paradigms:</b>                       | Single-page apps, test-driven development (TDD), behavior-driven development (BDD), MVC, service-provider, dependency injection, repository patterns, OOP, functional programming |
| <b>Testing, Documentation, Analytics, and Agile:</b> | PHPUnit, Behat/Gherkin, Selenium, PHPDoc, Confluence, Jira, Targetprocess, PivotalTracker, Trello, Google Analytics, Qualtrics  |

## Professional Experience

### Web Application Software Engineer

March 2016 - October 2017

*Chronicle of Higher Education/Chronicle of Philanthropy*

Washington, D.C.

- Developed new content features for Chronicle of Philanthropy's FuelPHP-based news site, including site sections, searching, page widgets, modals, media objects, sidebars, and ads. Built corresponding modules in the custom CMS allowing editorial staff to manage content of the site's new features.
- Delivered effective calls-to-action and optimized customer engagement via user behavior analytics (Qualtrics), A/B testing, and close collaboration with marketing, user experience (UX), and QA testing teams.
- Collaborated with developers in Agile/Scrum style to develop coding standards and ensure reliable, accurate delivery of requested features to product owners and stakeholders. Feature intake meetings, software design strategizing, product demos, code reviews, and sprint retrospectives.

- Technologies used: PHP, JavaScript, FuelPHP, Laravel, MySQL, RESTful APIs, Vue.js, Qualtrics, PHPUnit, PHPDoc, Git, Jenkins, Confluence, Jira, HTML, CSS, Less, Sass

### **PHP Front-End Software Developer**

June 2015 - January 2016

*Library of Congress — Convergencz/Primescape/Artemis Consulting*

Washington, D.C.

- Created "Congress.gov Admin Tools", a new Symfony 2-based PHP application, enabling Congressional Research Service specialists to classify, summarize, and cross-reference congressional bills, resolutions, and other actions of the U.S. House and Senate for publication on Congress.gov. Gathering requirements, writing stories, planning sprints, and implementing and demoing new features. This work was recognized as the first successful use of Agile development at the Library of Congress.
- Leveraged Symfony's service provider mechanism to communicate with RESTful API data storage backend, provide user authentication via the Library's central Active Directory service, and create a role-based access control (RBAC) system to manage access to appropriate resources.
- Created custom JavaScript interface elements including: a drag-and-drop task assignment calendar, WYSIWYG editor, drag-and-drop category tree reordering tool, and a dynamically-updated task assignment inbox according to user experience (UX) specifications.
- Technologies used: PHP, JavaScript, jQuery, AJAX, Symfony, RESTful APIs, Git, HTML, CSS

### **Digital Archives Developer**

June 2013 - June 2015

*United States Holocaust Memorial Museum*

Washington, D.C.

- Worked as sole developer on a small upstart team to make more of the museum's digitized archival content available to the public.
- Created an administration interface allowing archivists to organize assets on storage volumes into appropriate museum collections, allowing publication of the collections in an coherent fashion.
- Implemented a JavaScript/jQuery-based document viewer, allowing patrons to explore digitized archives, read transcripts and translations, and zoom into high-definition scans of historical documents.
- Technologies used: PHP, Ruby on Rails, JavaScript, jQuery, AJAX, MySQL, SQLite, Git, HTML, CSS

### **Application Developer**

September 2012 - May 2013

*National Democratic Institute — HireStrategy, Inc.*

Washington, D.C.

- Created and oversaw operation of a custom PHP/Symfony system to receive, parse, and tally SMS reports from hundreds of election monitors for the 2013 Kenyan Presidential Election, updating Kenyan government and media with real-time data on results and irregularities, enabling official certification of the election results.
- Maintained 15 Drupal and WordPress websites for NDI's remote field offices, including applying security and feature updates, troubleshooting, and making requested enhancements.
- Technologies Used: PHP, JavaScript, Symfony, Drupal, WordPress, SMS APIs, HTML, CSS

### **Web Application Developer**

March 2010 - April 2012

*U.S. Holocaust Memorial Museum — Aquent, Inc.*

Washington, D.C.

- Worked with content producers to communicate the Museum's messaging to the public via large website with many articles, videos, podcasts, data sources, microsites, online exhibits, and social media feeds.

- Isolated content and logic enabling a transition from the museum’s legacy PHP website to a structured site that can be updated dynamically using ExpressionEngine CMS.
- Implemented a redesigned version of the “Children of the Lodz Ghetto” site, a crowdsourcing application, enabling student volunteers around the world to assist in the task of deciphering and digitizing historical records of school children residing in the Lodz Ghetto during the Holocaust.
- Created a web application to allow visitors to view and react to historical photographs from the Holocaust, in order to foster critical thinking and provide feedback to the museum on audience understanding.
- Technologies used: PHP, Microsoft SQL Server, ExpressionEngine, JavaScript, jQuery

## **Software Developer**

April 2008 - November 2009

*Greystone, Inc.*

Bend, Oregon

- Worked on a team of four programmers to produce a complex industry-specific PHP application used by U.S. state governments.
- 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 role-based access control (RBAC) system with a complex and open-ended set of user relationship requirements.
- Increased team efficiency by creating automated devops tools, eliminating time-consuming manual processes and speeding release deployment.
- Technologies used: PHP, JavaScript, Subversion, HTML, CSS

## **Web Developer**

October 2006 - April 2008

*National Human Genome Research Institute — Digicon, Inc.*

Bethesda, Maryland

- Created, maintained, and overhauled websites and applications to support scientists doing research on human and animal genomes.
- Designed and implemented a “Compensatory Time for Travel” application, fulfilling a government requirement for employees to compute and track compensatory leave time earned during official travel, using decision-tree prompts to determine eligible activities and track the earned time-off as it is used later.
- Overhauled NHGRI’s legacy collection of internal websites for the institute’s individual “cores” (departments)--updating content and unifying styles and themes.
- Replaced legacy CGI scripts with modern MVC application structure, separating logic and presentation to enable integration into the larger site ecosystem.
- Technologies used: Perl, Oracle, JavaScript, AJAX, HTML, CSS

# **Education**

## **Bachelor of Science in Computer Science**

*University of Vermont, Burlington, Vt.*

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