

Moxley Stratton ~ Resume

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Web Site: moxleystratton.com

PDF resume: <http://www.moxleystratton.com/resume.pdf>

Senior Web Application Developer

Eleven years professional Web Application Development experience targeting UNIX-style platforms. Fluent in test-driven development of web applications using Ruby on Rails, Python, PHP, Java, CSS, JavaScript, and SQL.

Currently employed at ADP Dealer Services as a Senior Web Application Developer IV.

Technical Skills

Highly-Skilled In:

- **TDD:** Test-Driven Development
- **Python** web.py
- **Ruby:** Ruby on Rails, C-Ruby bindings
- **PHP:** OOP, MVC, PHPUnit, PHPDocumentor, PHP Doctor, Zend Framework, Drupal, Modern Merchant
- **Java:** Ant, Spring, Struts, Hibernate, JUnit, JSP, JSTL, Swing
- **SQL** MySQL, PostgreSQL, SQLite, HSQL, Stored Procedures
- **JavaScript:** ExtJS, JQuery, Prototype, JavaScript: The Good Parts, JSLint, JsDoc Toolkit
- **HTML:** CSS, XHTML, HTML production
- **Unix/Linux:** Bash, sed, awk, vi, grep, apache admin, yum, apt-get, rpm, etc.
- **Editors:** Emacs, Vim, TextMate, Eclipse
- **Source code management:** Git, Subversion, CVS

Other Skills

- **C/C++:** network programming, language parsing
- **Clojure:** A lisp-based functional language that runs on the JVM: clojure.org
- **AI technologies:** Neural Networks, Support Vector Machines, Bayesian filtering

Featured Projects

Project: Central Device Management

Employer: ADP Dealer Services (8/2008 Current)

Timeline: September 2009 - Current

As Senior Application Engineer IV, led team as Technical Lead to launch new phase of Central Device Management (CDM), a tool for ADP support staff to find and manage network assets at the client's location. Assets are equipment and devices such as PCs, printers and routers. The tool gathers information about the client's network devices, and compares that information from ADP's asset database to determine what the client has for troubleshooting purposes, what is under a support contract and what is not. The application is distributed between several different machine roles, including Asset Database, Central CDM Hub, Dealer Management System, and Dealer employee PCs. Most communication between systems is via

SOAP calls. CDM's primary interface is web-based, relying heavily on JavaScript, ExtJS and ActiveWidgets. The backend on the Dealer Management System is PHP, Bash and PostgreSQL. Network device discovery is a mixture of third-party open-source software, custom C code, and custom .Net code.

Project: Clipbook.it
Company: Kokeena
Timeline: September 2011 - Current

Clipbook.it is a web app that lets people collect images from the web. Moxley is a partner and sole developer in this venture. The web site is developed using Python web.py, PHP, HTML, JQuery, and MySQL. The application architecture is described at <http://moxleystatton.com/article/clipbook.it-architecture>.

Project: Client Notification System
Employer: ADP Dealer Service (8/2008 - Current)
Timeline: April 2010 - September 2010

As Senior Application Engineer IV, designed and developed a document editor for distributing announcements to users of ADP's software applications. Editor featured drag and drop document components, and a desktop-like experience in a browser-based application. Technologies include Linux, JavaScript, ExtJS, Ajax, PHP, SQLite.

Project: Install Wizard
Employer: ADP - Dealer Services
Timeline: August 2008 - Current

Senior Application Engineer IV, responsible for creating new modules to the Install Wizard browser-based application. Authored and published a development process improvements document for the department team. Technologies include PHP, C, PostgreSQL, JavaScript, AJAX, CSS.

Project: Expresscopy/InfoUSA Integration
Client: Expresscopy.com (via Centerstance)
Timeline: March 2008 - July 2008

Web application development for e-commerce web site, bridging product offerings from Expresscopy.com and parent company InfoUSA. Used PHP with Zend Framework, PHPUnit, Javascript (with heavy Ajax and dHTML), MySQL. Used Scrum (agile) project methodology. Brought substantial MVC and unit testing best practices to the software design and development process. Created extension to the Zend Framework in order to provide ActiveRecord API and speed up and simplify further application development.

Project: Listphile
Client: De Brun Design, Inc.
Timeline: January 2007 - February 2008

Web Application Developer on www.listphile.com. Using [Ruby on Rails](#) and MySQL on an Apache/Mongrel cluster. Highly-refined MVC architecture featuring a virtual, user-defined list schema, all Models using pure OOP database access (no direct SQL), AJAX user interfaces, and a multi-format import/export module. Multi-tiered caching strategy that allowed site to handle large traffic spikes from Digg.com and Slashdot.org.

Project: Modern Merchant
Client: Multiple

Timeline: April 2003 - Ongoing

Designed and developed Modern Merchant, an open source, e-commerce web application written in PHP. The project is hosted at SourceForge (<http://sourceforge.net/projects/modern/>). The home page is at modernmerchant.org. Although the project is pre-release status at SourceForge, versions of it are currently in production at www.beadwife.com, www.bridgetownglass.com, and harvestbeads.com. It uses MVC architecture for the shopping cart checkout and administrator interface.

Project: PrintAndPraise Worship Program

Client: OCP (via Tek Systems)

Timeline: January 2006 - October 2006

Developed dhtml/ajax-intensive web application for creating programs for worship services. Try the demo at <http://www.printandpraise.com/editor/gettingstarted>. Major focus on drag-and-drop functionality of content elements, creating functionality from scratch but inspired by the script.acul.us javascript library. Used the prototype javascript library throughout for low-level support. Middleware developed in PHP.

Major focus on PDF generation using PDFlib as a basis. Created stylesheet-controlled architecture similar to CSS. Created and refined MVC application design.

Project: Product Catalog Database

Client: Platt Electric (via Creative Data)

Timeline: December 2004 - October 2005

Designed and developed product management application for Platt's product catalog at <http://www.platt.com/>. Technologies include Java, Ant, Struts, JSP, JSTL, Hibernate, JUnit, XDoclet, XHTML+CSS, AJAX, DB2, HSQL, Python and PyUnit. Enables administrators to manage item-level, product-level, category-level, and manufacturers. Main obstacles included designing a user interface that is easy and intuitive while allowing user to associate an item in one very large set with an item in another very large set. Sometimes, such relationships were many-to-one, such as assigning a product to multiple categories. Another UI problem overcome was allowing the user to navigate hierarchical tree of a large number of items (~10,000 items). Web services are used to synchronize the platt.com slave product database (hosted off-site on a Dot Net/MSSQL platform) to Platt's master database (iSeries/DB2). Also developed sub-application, New Products Page, that allows customers and sales staff to navigate Platt's newest products. Python was employed to convert static-HTML product catalog into database records and to convert MSSQL data into the product catalog database.

Project Name: EBARS

Client: Voice Connection

Timeline: December 2004 - February 2005

Designed and developed EBARS, a high-speed email blast engine written in Java. It provides a web services interface that accepts a large set of email addresses (typically 1,000 to 40,000) and an email message, and it sends the message to each of the recipients on the list. The system provides four different reports via web services, each describing different aspects of a processed email blast. Significant technical challenges included: Parsing the email message and its containing HTML message, and adding an image tag to the message so that it can be tracked. EBARS hosts the image referred by the tag and records the opening event when the image is requested by the recipient's email client. Tracking bounced messages and opened messages, recording them, and providing a report via web services. Multi-threaded operation: EBARS receives blast request in a separate threads, while additional threads are used to send the blasts.

Project: Online Storefront

Client: Monster Vintage

Timeline: October 2001 - Present

www.monstervintage.com. Designed and developed online product catalog and product management application. Sub-projects include email list management and publisher, third-party links page with management application, and sales reports. Developed MVC framework in PHP inspired by Jcorporate's Expresso framework (a Java framework).

Project Name: Online Survey

Client: The Carter Group (now Reparior, Ltd.)

Timeline: February 2001

Designed and developed online survey to help managers access the quality of their corporate culture. Includes interface for managing recipients, creating surveys, assigning surveys to individual companies, and generating reports. Written in PHP with MySQL.

Technology Highlights

For a complete list of projects, see <http://www.moxleystatton.com/>.

2008: Developed query layer on top of Zend Framework's DB API. Adds fluid and easy creation of object queries. Saved development time throughout project timeline.

2007: Developed schema builder user interface using Ruby on Rails and Prototype, for the Listphile project.

2006: Developed document builder web application using PHP, PDFLib, Prototype, within a Drupal website at OCP. Built modular framework around PDFLib to create PDF from complex document descriptions, allowing for pluggable document styles. Developed Javascript framework for managing document builder user interface.

2004: Designed and developed media import application. This Python desktop application resided on CD-ROM, and included an installation wizard and data import wizard. It imported data records and media files from multiple CD-ROM sources into Platt's DB2 database. MySQL was used as an intermediary database for performing data processing before the import. The wxPython API was used for the user interface.

2004-2005: Developed customizations to CompuChecks.com online storefront. Technologies: X-Cart, PHP, Smarty.

2004: Designed and developed Dynamic Form Host, an application used to turn static HTML forms into hosted, dynamic web applications for collecting information from visitors. Client: Black Coral Design. Technologies: PHP, HTML event-style parsing.

2004: Customizations to Mailman (<http://www.gnu.org/software/mailman/>) in Python for MBOA (www.multibandofdm.org) via ItMustBe.com.

2003: Re-created e-commerce product catalog, shopping and product management application for Westwind ID (www.westwind-id.com). Technologies: PHP, DB_DataObjects, MySQL.

2003: Designed and developed web intranet application using Java servlets and JSP for Gartner Inc. and Hewlett Packard

2002 - 2004: SpacePlex Web Hosting Company. Owned and managed web hosting service. Managed all aspects of Linux web/email server, including software installation, backups, server migration, disaster

recovery, e-mail lists, custom hosting setups. Managed Red Hat Linux, Qmail, Apache HTTP, Plesk, MySQL, PHP, and Perl installations.

2001 - 2005: Developed and maintained numerous web applications and web sites for Harland Financial. Managed and maintained Linux web server that hosts the sites. Technologies: PHP, MySQL, Apache HTTP, OpenSSL, Mongoose, Linux.

2001: Orchestrated migration of product support web site from MSSQL to MySQL for Harland Financial (www.harlandfs.com). Technologies: PHP, MSSQL, MySQL.

Education

- Coursework in Computer Science, Portland Community College, Portland OR. 4.0 GPA
- Coursework in Computer Science, Music, University of Nevada, Reno, NV
- Coursework in Computer Science, American River College, Sacramento, CA
- Graduate, Rio Americano High School, Sacramento, CA

Affiliations

- [Portland PHP Users Group](#) - Founding member
- [Portland Ruby Brigade](#)