**Michael Accardo**

+1 (754) 201-6042

[accardo@cpan.org](mailto:accardo@cpan.org)

**OBJECTIVE**

Senior developer/Architect with experience and a strong record of success seeks a new position where he can make a major impact.

**Technical Skills Summary**

|  |  |
| --- | --- |
| **Languages** | Perl: 15+ years, CPAN directory: https://metacpan.org/author/accardo  Modern Perl, extensive experience with Perl for Web development.  JavaScript: 15+years, Certified in React  Experience with jQuery, jQueryUI, DataTables, Prototype and AJAX  Other languages: SQL, HTML5, CSS3, XML, JSON, PHP |
| **MVC frameworks** | Catalyst, Symfony. I also have experience with “roll your own” frameworks, but I always advocate and prefer using proven solutions (design patterns). In addition, I have a background in multitier (n-tier) application development with an emphasis on horizontally-scaled Web architectures. |
| **Information architecture** | Pixel-perfect Web design, including defining site structure, navigation, and page layout by creating site maps and wire frames, writing use cases and UI specifications. Converting PSDs to semantic HTML and CSS. Passionate about the user experience. |
| **Relational databases** | Experienced with data modeling, normalization/denormalization, fact and dimension tables, etc, with 10+ years as a developer of database-driven products, including high volume web applications with large data sets (tables over 1 billion rows, over 1TB data). Knowledgeable with mapping objects to relational databases using table inheritance strategies. ORM experience. |
| **Release management** | Experienced with the managing of software releases: merging, branching, resolving conflicts, patch fixes, smoke testing, managed builds to QA.  CVS, Subversion, Mercurial, Git, and Perforce experience. |
| **Systems administration** | Experienced with Unix systems administration; especially system installation and maintenance, script writing, network security, and installation of third-party software. Adept at both Linux/Unix and Windows shell environments. |
| **Web services and APIs** | Experienced with the design and use of Web APIs, including ones for geolocation and advertising. Skilled with the management of API session tokens, SOAP, WSDL, REST, XML-RPC, and the use of Eclipse for Web services testing. |

**WORK EXPERIENCE**

My professional experience encompasses a broad range of industries and includes small startups and larger publicly-traded companies. Lately, I have been providing leadership in the development of enterprise SaaS solutions in a LAMP stack (monolithic architecture).

**WireSpring, October 2011 to Present**

**Principal developer**

At WireSpring, I am a full-stack LAMP developer for a cloud-based SaaS product. The software provides remote management for smart devices running our Linux-based embedded operating system. My main task is to modernize the software and provide scalable solutions for larger, international customers.

While here I:

* Completed multi-year software projects involving UI/UX design, backend services, and software architecture in a full-cycle software development process (SDLC)
* Converted the product from a multi-page to a single-page app (SPA) architecture
* Wrote a calendar scheduling algorithm to manage content updates across timezones. Thousands of smart devices across the globe rely on these updates.
* Implemented a subset-match algorithm for customer inventory searches
* Designed and architected REST API
* Increased customer usage by establishing granular CRUD permissions for accounts, users, and role-based access control (RBAC)
* Eliminated backend bottlenecks with SQL optimization and algorithm redesign using KISS, DRY, and YAGNI design principles
* Reported directly to the CEO. Proactively discussed customer needs to ensure high quality deliverables
* Collaborated with the DevOps lead on systems architecture
* Performed root cause analysis on critical incidents and events. Mentored a junior developer.

My work transformed the management tool into the company’s leading revenue product, which the company highlights in sales presentations. And during my tenure, WireSpring saw its customer numbers rise sharply.

Environment: OO Perl/mod\_perl, Mercurial (commit hooks, grafts), test-driven development, responsive design, HTML5 (History, Storage), CSS3, Grunt, OO JavaScript, jQuery (DataTables, jQueryUI), Prototype, AJAX, XML, JSON, Jenkins, Docker, VMware/VirtualBox virtualization, MySQL, REST/XML-RPC, LAMP. Started on-site before 100% telecommuted.

**Udacity, March 2019 to Present**

**Data Engineering Mentor**

Mentor for Udacity’s Data Engineering Nanodegree program (<https://www.udacity.com/course/data-engineer-nanodegree--nd027>), where I provide educational and technical support to students. Course material covers data modeling, data warehouses, data lakes, and data pipelines.

**Selling Source, December 2009 to February 2011**

**Software developer**

I worked at Selling Source as a software developer on an emergency team tasked with fixing and maintaining a high-volume media product. All members of the original software team abruptly quit and left no documentation, so I played the role of “fireman” in an effort to stabilize the platform. My tasks included:

* Quickly learning a large code base that no one at the company understood
* Fixing mission-critical bugs while under massive pressure from management
* Resolving API processing difficulties with Yahoo technical support
* Creating scalable software that relied on a third-party advertising platform (Yahoo Ad Exchange) via web services
* Writing software requirement specifications for new projects and providing estimates and timelines for development releases

Environment: LAMP, OO PHP (Symfony MVC framework), jQuery, AJAX, XML, SOAP, MySQL (replication), Backend API processing (cron jobs, daemons, queuing systems, etc), SVN, Linux, Scrum agile software development

**Velocitude, June 2009 to October 2009**

**Senior software engineer**

At Velocitude, a mobile-phone development start-up, I was part of a small team of programmers building software for mobile-phone devices (iPhone, BlackBerry, etc). I was the lead developer in charge of mobilizing Xtime, a Web scheduling platform, used by over 300 AutoNation dealerships.  Additionally, I setup cloud production and development environments using Amazon EC2 and instituted QA practices, by installing and managing Bugzilla and Selenium. And I wrote many unit tests and MediaWiki extensions in PHP.

Environment: Perl (Catalyst MVC framework), PHP, MySQL, Git, Ubuntu Linux, Cloud computing (RightScale + Amazon EC2).

**LexisNexis, August 2008 to October 2008**

**Senior Perl Developer**

I was a senior Perl developer at the Risk Solutions division of LexisNexis, where I provided scalable Web application development for risk analysis software. This was a contract position.

Environment: Perl (OO, HTML::Template), FastCGI, MySQL, Sybase, XLST, CVS, Linux

**Napster, March 2006 to March 2007**

**Software engineer**

At Napster, my work focused on the development of the Napster website and desktop client. I also assisted in the development of the Napster Mobile product and worked closely with the Interwoven developer in creating user-friendly editing interfaces and templates. In addition, I managed software releases and provided support and insight to QA for software-programming code and applications. I assisted QA (managers and specialists) with testing procedures via email, phone, and face-to-face meetings.  My team comprised of 11 developers in total, some of which came from another branch within our region.

Environment: Perl (mod\_perl, EmbPerl), Oracle, CVS, TeamSite Interwoven, Linux.

**ValueClick (renamed Conversant as of 2014), March 2005 to February 2006**

**Software engineer**

My main duties involved web application development for ValueClick Media, an ad-serving intermediary between online advertisers and publishers. I developed consumer-facing and internal applications that supported a high volume of users on a daily basis.  At times I was also called upon to provide expertise to the design and analysis of these applications, assist in determining the technical direction for the implementation of projects, and act as a source for testing and code revisions utilizing Perl and Perforce. The majority of the projects were performed within teams of 15 developers, 40 in total located on-site and internationally.

Environment: Perl (DBI, mod\_perl, HTML::Mason), MySQL, Perforce, Linux

**UNIVERSITY OF FLORIDA, 1996 to 2004**

**Staff member and student**

I was a full-time IT staff member and student at the University of Florida for many years.

**EDUCATION**

University of Florida: B.A., Graduated with honors, 2000

University of Florida:Post-baccalaureate program in Computer Science, 2003-2004

Program included courses in Java, C, computer design, and operating systems

Inbound Marketing Certification: Hubspot Academy, 2016-2017

Topics included A/B testing, lead generation, conversion tracking, SEO optimization and marketing automation

React Developer Certification: Udacity, 2018

Program covered React’s component model, Redux, and React Native to develop apps on both iOS and Android devices (https://confirm.udacity.com/DJNDSKD3)

**University of Florida work history:**

**Biotechnology Research Center, University of Florida, July 2002 to May 2003**

**System administrator**

In my position as system administrator, I installed and configured servers for use by customers and internal staff. I documented policies, crafted procedures, and coordinated vendor relations. One of my main duties was to manage a large scientific database and provide training in its use to people of widely varying backgrounds. I also assisted in the development of the Center’s Website by writing Perl CGI scripts and configuring the Apache HTTP server.

Environment: Sun Solaris (Unix), SPARC-based workstations and servers, Accelrys GCG

Note that this position was a promotion from my previous position at the University of Florida. I was employed at the University of Florida for over seven years. I left this position to return to school. Please see my education section for further details.

**McKnight Brain Institute, University of Florida, May 2001 to July 2002**

**Webmaster & multimedia technician**

As the Webmaster for the MBI, I was responsible for all aspects of the institute’s online presence (300+ pages). I wrote thousands of lines of HTML and JavaScript, developed Perl CGI scripts and oversaw the transition of the site to PHP. I created Web-based games and applications utilizing MySQL. I also administered the Apache Web server and consulted with diverse faculty for project needs and deadlines.

Environment: PHP (version 3), MySQL, DHTML, Apache, Perl, SGI Irix (Unix)

**Networked Writing Environment, University of Florida, January 1996 to December 2000**

**Systems operator**

While working at the NWE, I was a member of a small support staff that handled user support of Unix software, answered user questions and provided troubleshooting of user problems. I also developed online HTML and Web design tutorials for users. In addition, I assisted in the installation and maintenance of hardware and helped train new personnel.

Environment: HTML, JavaScript, Apache, IBM AIX (Unix), X windows and terminals

**RELATED ACTIVITY/INDUSTRY PARTICIPATION**

**Open-source software developer, 2001 to present**

I am a GitHub contributor and have released several modules on CPAN.

CPAN directory with code samples: <https://metacpan.org/author/accardo>

HTML-Perlinfo is my most popular software. XAMPP, a popular cross-platform web server solution stack package, includes it in its distribution, as does DragonFlyBSD, a fork of FreeBSD.

I have also worked as an independent consultant/contractor for small online companies.

**Presentations at software conferences**

“MozRepl and Perl: Manipulating Firefox from the inside out” (presented on January 15, 2011 at Perl Oasis 2011)

My topic was browser automation using Perl and MozRepl, a Firefox extension that allows you to open a connection to a running Firefox session and gain access to a JavaScript interpreter context that can access all aspects of the Firefox runtime. It lets you program Firefox (and other Mozilla-based applications) from the inside.

Presentation description: <http://www.perloasis.info/opw2011/talk/3148>

Presentation video: https://www.youtube.com/watch?v=FJQAW8eom84

I also took a Moose course by one of the core Moose developers.

**Related associations**

President-Miami Perl Mongers (September 2004 to 2011)

President-Gainesville Perl Mongers (September 2002 to July 2004)