

Andrew C. Bertola
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Senior PHP / LAMP Developer, ZCE-1000

Expertise

I bring 11 years of full time experience as a PHP programmer on the LAMP stack. This includes leading development teams, design and buildout of enterprise class deployments, and configuration and administration of most Linux / UNIX tools as well. Received Zend Certification in October, 2005. My skill set includes:

Programming Related:

- **PHP (ZCE-1000, Oct 2005)**
- **XHTML, CSS, Javascript, DHTML, AJAX, REST, JSON, XML-RPC, SOAP**
- **bash, csh, sed, awk, Perl, C, Dojo, YUI**

Admin Related:

- **Linux (RedHat, Debian, Fedora, CentOS), FreeBSD, OpenBSD, ESXi**
- **Apache, MySQL, Sendmail, Bind DNS, Subversion, Nagios, Trac, and others**
- **MySQL and Apache tuning, HA Clustering, Master / Slave DB configurations**
- **Custom RPM packaging, automated installs, custom kernels, virtualization**

Other:

- **Gimp, Photoshop, ImageMagick, ffmpeg, Flash**

Professional History

theCoop.net - Consultancy, Sunnyvale, CA
Oct 1998 - present

I founded theCoop.net as a small PHP development and hosting firm dedicated to concentrating on a limited set of clients. The largest of these included:

- [GlobalPKG](#) (2008-current) Hired as a Zend Framework and MySQL consultant for a project developed for GM. Designed and built out a fully redundant and continuously monitored architecture which was required by GM to pass rigorous auditing and failover testing by auditing firm KPMG.
- [HP / Agilent](#) (c. 1998-current) Built and maintained a web based dispatch system that allowed staff to be notified by text message to cell phone or pager, a bit of a technological feat in 1998. This system is still in use today. (Note: this is concurrent to, but otherwise unrelated to the other contract work for HP/Agilent.)
- [XRentDVD.com](#) (1999-2001) Built a Netflix clone for the adult DVD market, taking them from 20 rentals per day to over 200 per day. Moved them to the LAMP stack and built a customized eCommerce suite based on an early version of phpShop. Added rent / purchase options and customer retention features (wishlists, news letters, etc.).
- [Seekerinc.com](#) (2000-present) Stream lined their operation by building and hosting their online marketing list selection tools on an HA LAMP cluster. This enabled Seeker's clients to tailor the marketing data lists they sought to their exact specifications before placing the order online. Seeker, relieved of the need to hand hold their clients through each order was able to use the time they saved to diversify their product offerings, thus attracting a wider and healthier client pool.
- [BAJobs.com](#) (2001-2003) Hosted and provided administration and maintenance for their Linux server cluster running their Resin based Java application.
- [Socialtext.com](#) (2003-2005) Contracted as systems administrator for their Debian based development and demo platforms.
- [Nursetown.com](#) (2002-present) Built and hosted this nursing job board and portal. Although it's in desperate need of a rewrite, the owners are still running strong with only minor maintenance to keep in going.

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Jupiter Hosting Inc - Santa Clara, CA
June 2005 - July 2007

As a Senior Programmer (and the first hire of their new Software Development Group) I was brought in to help with specifying system requirements to run a large scale affiliate sales package. As management was hired around me, as well as junior staff, my duties shifted to sharing my time between peer mentoring, and lead developer responsible for project analysis, design, and coding. Highlights of my accomplishments there include:

- Wrote an apache-2.2 module (in C) to insert or replace text within all web pages delivered as specified by either or both per-server or per-directory configurations.
- Selected and implemented a team wide code repository and bug tracking system. I chose Subversion for revision control, and Trac for code browsing and bug / feature request tracking.
- Developed a subscription management system for maintaining account status of nearly 100,000 full and trial members to adult pay sites.
- Developed a document management system to help clients manage and deliver age verification data for all models / actors as required by the recently legislated US Code: Title 18 sec. 2257.
- Developed an internal sales quoting system, with components for each of the steps in the quote to contract workflow. Extensive use of DHTML went into creating an all-in-one worksheet form that allowed sales associates flexibility and instant updating of calculated totals normally only seen in a desktop spreadsheet application. Quote versioning and tracking from draft to deliverable to signed contract were essential requirements. Automatic generation of draft and final quotes in PDF format, as well as automated delivery to the prospective client were additional requirements.
- Developed a custom CMS and multi-user blog based on Zend Framework for their customer facing corporate site. The final deliverable utilized Lucene search, XML-RPC (both client side and server side), ATOM and RSS feed components (for job postings and news releases), and the file based caching capability provided by Zend Framework.

Hewlett Packard (full time contract) - San Jose, CA
1998 - 2000

Hired to deploy and maintain networked instrumentation and facilities management packages. This was quite an unusual setup consisting of DOS based instrumentation networked via TCP/IP over TokenRing and bridged to NT based Ethernet servers. HP spun off their instrumentation and semiconductor business as Agilent Semiconductor during my tenure there. Shifted to a programming role to develop some reporting and logging facilities, as well as a web based staff dispatch system. This final project lead to my own spin-off of theCoop.net (see above).

Telosense Corp - Fremont, CA
1993 - 1998

Hired as a field service engineer to install and maintain toxic gas detection instrumentation for the semiconductor fabrication industry. Based on FTIR spectrometry, flame photometry, and acoustic density sensor technologies, the position also required advanced knowledge of PC based systems and software, as well as various network protocols.

Itek Optical (Litton) - Sunnyvale, CA
1989 - 1993

Brought in to work on classified high altitude optical reconnaissance systems. Spent 1 year at an overseas field location. On return, was enlisted as a senior technician in an R&D effort to update aging remote sensor technology. This included work with both hardware and software on an embedded M68K controller. Promoted and transferred to Sunnyvale

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Field Engineering office.

Education**University of Connecticut - Storrs, CT**
1981-1985

Spent 4 years working towards CS / EE degree but was unable to finish due to financial strain. Left to build up more funding. (110 semester units completed).

Continued additional course work at Mission College and Santa Clara University, but never fully satisfied degree requirements for a BS. Currently have ~140 semester units.