

Theodore R. Smith

theodore@phpexperts.pro

Online code portfolio: <http://github.com/hopeseekr>

Watch me code (time-lapsed coding video):

Federal Income Tax Calculator: <http://vimeo.com/86472624>

Experienced WebServices Developer specializing in Object Oriented PHP 5. MySQL 5, SOAP, XSL, and Cross-Platform C++. Able to multi-task between multiple projects with an eye on scalability and maintainability of applications and frameworks. A Zend Certified PHP 5 Engineer, ZEND005639 as of June 22nd, 2007. Skilled at developing large-scale, highly-trafficked (>50 million visitors/month) PHP 5 websites, both ecommerce and media. A skilled refactorer and used to improving existing applications in tandem with new development.

Certifications

1. **Zend Certified PHP 5 Engineer - ZEND005639**
2. **MySQL 5 Certified Developer - 229350277**
3. **MySQL 5 Certified DBA - 229350278**
4. **Certified Linux Professional (LPIC-1) - LPI000334283, Verification: yq93ms4w7t**

Skill Inventory

Skills	Level	Experience
Programming Language :: PHP JavaScript AJAX (and later, JQuery)	Highly Advanced Highly Advanced Advanced	16 years 17 years 9 years
Database Environment :: Database API :: SQL	Highly Advanced	13 years
Programming Language :: C++	Competent	8 years
Programming Language :: Perl	Basic	3 years
Programming Language :: Java	Highly Advanced	2 years
PHP Composer	Advanced	3 years
MySQL database development and administration	Highly Advanced	11 years

Object-Oriented Programming	Highly Advanced	11 years
System Administration	Advanced	9 years
Programming Language :: WebServices :: SOAP	Advanced	4 years
Programming Language :: C#	Basic	6 months
NodeJS	Intermediate	3 years
CMS: Drupal	Competent	3 years
CMS: Wordpress	Advanced	2 years
Framework: Symfony 1+2	Advanced	6 years
Framework: Zend 2	Competent	2 years
Translations :: French	Competent	6 years

Work History

PHP Experts Inc., Houston, TX. – July 2012 – Current

⤴ Job Title: Team Lead + Senior Software Architect

- ⤴ Team lead of 2 senior + 3 junior (in house + outsourced) developers.
- ⤴ Primary products: PHPU.cc (PHP University), security auditing and team training.
- ⤴ Lead developer for business solutions (WHMCS, custom Retail Platform and custom cPanel extensions),
- ⤴ Chief responsibilities include refactoring complex SQL queries, and properties' load times in general, refactoring legacy code bases, and developing new Web 2.0 platforms.
- ⤴ SCRUM master-in-training
- ⤴ Test Driven Development: Base development around automated tests (unit and integrative (Selenium + PhantomJS, using the Codeception framework).
- ⤴ Coding demo: <http://www.youtube.com/watch?v=xJPf7XGDLqo>
- ⤴ **PHP Experts Notable Contracts:**
- ⤴ MacMillan (via TechMahindra) - Bogota, Colombia (100% remote) - Sep 2015 - October 2015 [C2C contract]
 - Symfony2 + Doctrine2 as a RESTful API server,
 - AngularJS front end work

- **Made a custom Doctrine2 Abstract Syntax Tree walker extension for archiving data.**
- **Made a complete advanced search for highly-normalized data (~1 TB) in Solr and PHP**
- **Migrated parts of the application to document DBs (MongoDB and Solr) for performance.0**
- ↑ Bahamas Customs Shipping - Nassau, Bahamas [onsite] - June 2015 - August 2015
 - Training local coders in Scrum, Doctrine2 and Symfony2.
 - Setting up coding environment
 - Around the clock mentoring
- ↑ TIAA-CREF (via Cognizant) - Bogotá, Colombia (50% remote, 50% in Bogota) - Mar 2015 - June 2015 [C2C contract]
- ↑ Creating an auto generator of investment and retirement services, 3rd-party deployed applications for major (Fortune 500) institutions.
 - Team lead of 7 American developers [2 in NC, 2 in CA, 1 in Texas, 1 in NYC, 1 in Colombia], 6 in India
 - Scrum master
 - Coordinator between international programming team and Americans.
 - Kohana Framework + In-house framework
 - AngularJS + Bootstrap
 - Migrate and maintain legacy code.
 - Mentor programmers weekly.
- ↑ MacMillan (via TechMahindra) - New York, NY (100% remote) - Nov 2014 - Feb 2015 [C2C contract]
- ↑ Created an ecommerce portal for buying and renting textbooks, at a university level.
 - Team lead of 8 developers, all remote, 5 in India, 3 in America [NYC [me] and St. Louis.
 - Symfony2 + Doctrine2 as a RESTful API server,
 - Consumed by AngularJS with fluent CSS
 - Caching via RedisCache
 - Created a fully functional Role-Based Access Control (RBAC) authorization system.
 - Heavily refactored lots of poor performance Doctrine code via DQL and direct SQL.
 - Created a lot of unit, functional, and API tests using Codeception and PHPUnit.
 - Scrum master
 - Mentor programmers weekly.
- ↑ Stealth.travel - New York, NY - April 2014 - October 2014 [6 month contract]
- ↑ Created an ecommerce platform for buying flight, hotel, and car vacation packages (like priceline) but with a focus on complex groups and multi-destination itineraries.
 - Symfony2 + Doctrine2; RESTful API server + Twig and Underscore/Backbone for front end.

- NodeJS for CPU-intensive tasks [mostly my work],
 - Tasks coordination via RabbitMQ
 - Created RESTful Web 3.0 services in PHP 5.5, using a custom-built Symfony2 REST API system.
 - Created comprehensive Redis caching system for highly-fluctuating airline availability data. Integrated it seamlessly with every existing API.
 - Created fluent-designed front-ends jQuery, Backbone, Underscore and Handlebars
 - Created responsive CSS3 for multiple interfaces (phones, tablets, and Desktops).
- ↑ 2nd.md - Houston, TX - February 2014 [3 week contract]
- Migrated complex videoconferencing web app BackboneJS/Underscore to AngularJS.
 - Symfony2 Framework for REST API
- ↑ WHMCS.com - Houston, TX - July 2013 - Jan 2014 [6 month contract]
- Conducted a comprehensive security audit.
 - Extensive secure coding and best practices training for development team
 - Found and fixed a great many security flaws. Average number of in-the-wild exploits decreased from ~4/month to zero in 12 months and counting (last exploit: October 2013).
 - Refactored entire legacy codebase to work in UTF-8 natively.
 - Redesigned/refactored their modules system, from the ground up,
 - Optimized and refactored their release system management,
 - Implemented comprehensive i18n internationalization support, system-wide
 - Implemented one of the most comprehensive and complete International Domain Names (IDN) v2.0 support for any registrar.
- ↑ RailChannel.com - The Woodlands, TX, - March 2013 - June 2013 [3 month contract]
- Team Lead: Five person team (2 devs, 2 designers, 1 BA+QA) project; Lead Dev.
 - Comprehensive YouTube-esque continuing education site, built from scratch.
 - Created highly customized video searching system utilizing Zend_Lucene and a 3rd party video metrics analyzer.
 - Framework: Joomla (client's requirement).
 - Handled all development and design (except graphics)
- ↑ Stack: Windows Server 2008 R2, PHP 5.4, Apache 2.4 and MS SQL Server 2008
- ↑ USBank.com - Minneapolis, MN - Nov 2012 - Jan 2013 [3 month contract]
- Three person team (2 devs, 1 BA+QA).
 - Conducted a comprehensive security audit [PCI, XSS, CSRF, et. al],
 - Fitness hardening of the entire LAMP stack with emphasis on code security,
 - Secure coding training for development team
 - Built new admin interface utilizing PHP, BackboneJS, and jQuery.
 - Stack: Windows Server 2008 R2, PHP 5.4, IIS and MS SQL Server 2008

- Zend Framework 2

Hearst Corp., Houston, TX [Long-term support contract via Delphi-US]. – February 2011 – July 2012

- ↑ **Job Title: Team Lead / Senior Software Engineer**
- ↑ Team lead of the Hearst Wordpress Network (2500+ blogs; 2nd largest wordpress deployment in the world).
- ↑ Manages team of 6 (3 remote; 3 local) developers, both junior and senior.
- ↑ Maintain high-trafficked WP network (>**80 million visits/month**).
- ↑ Created, extended, and maintained multiple WP plugins, themes, and core WP.
- ↑ Former team lead of core platform for newspapers (Houston Chronicle, SFGate, etc.)
- ↑ Maintain, extend, and refactor core platform (70% PHP+SQL, 10% XHTML/CSS, 15% JS, 5% C#), web services, and feeds.
- ↑ 11 months as junior architect of the HDN News Division platform, based on the Symfony2 platform.
- ↑ Main high-trafficked news network (>**150 million visits/month**).
- ↑ Facebook, Twitter API integration.
- ↑ Facebook app development.
- ↑ Android app development.

SpeedFC, Dallas, TX. June 2010 – February 2011 [W2]

- **Job Title: Senior Software Engineer**
- Team lead of 2 senior + 15 junior (in house + outsourced) developers.
- Lead developer for YankeeCandle.com's 2011 relaunch.
- Chief responsibilities include refactoring complex SQL queries, and properties' load times in general.
- Team lead of multisite Internet Retail ecommerce Platform (core project).
- Support for TheLimited.com, Shopko.com, ShopJustice.com, and AnchorBlue.com, among others.
- Symfony Framework.
- Personal projects include migrating from Symonfy 1.0 to 1.4 then 2.0, moving core platform logic to Zend Framework, refactoring the IRP for large-scale traffic, and creating unit and integration tests for the IRP.

RMG Connect/JWT, Irving, TX. July 2009 – June 2010 [W2]

- **Job Title: Software Engineer**
- Developer for the U.S. Marines Corp web properties, including marines.com both public facing and military facing.
- Zend Framework
- Lead developer on project to create an ultra-secure and distributed unified login system for USMC properties.
- Developed several high-trafficked Facebook applications (e.g., USMC Loyalty app)

Responsibilities included:

- refactoring and increasing in efficiency military websites to support mission-critical flash traffic from major media campaigns
- auditing and fixing XSS and SQL injection vulnerability across a host of marines website properties
- mentoring and training team members on proper secure, resilient, scalable, and maintainable OOP PHP using the Doctrine, Symfony, and Zend Frameworks, which are all utilized for different projects.
- Migrating JSP properties to PHP 5.
- Main backup for most projects (recruiting, facebook apps, public relations, and officer apps).

Blinds.com, Houston, TX. December 2007 – July 2009 [W2]

- **Job Title: Web Applications Architect**
- Customized website design and development.
- Maintainer of www.blinds.ca and www.nobrainerblinds.com
- Followed the structured SDLC RUP process.
- Ensured work meets quality standards and assisted other IT staff in QA testing.
- Responsible for developing backend C++, frontend C# web app while maintaining and refactoring an existing PHP 4 code base.

Job IT, Houston, TX. August 2007 – December 2007 [1099]

- **Job Title: Web Application Developer**
- Integrated Object Oriented user-end web application with backend business .NET application via SOAP and PHP.
- Made extensive modifications to the Joomla Content Management System in PHP and MySQL 5.
- Optimized and refactored existing project codebase for efficiency and speed.
- Customized Drupal interface for their intranet.
- Migrated existing web application from PHP 4 and MySQL 4 to PHP 5 and MySQL 5.

713-Tickets.com, Houston, TX. May 2006 - May 2007. [W2]

- **Job Title: Web Application Developer**
- Lead IT employee for Houston's second largest ticket broker, team of 3.
- Setup and maintained network services such as proxy servers, email exchanges, and DNS servers using 100% open source, typically GPL, software..
- Trained staff to use new technology, such as new Point of Sales.
- Oversaw development of numerous website properties, chiefly 713-tickets.com.

- Built enterprise Object Oriented PHP+MySQL websites and applications revolving around the TicketsNow / EventInventory, TicketNetwork, and StubHub/Ebay SOAP-based WebServices.
- Pioneered effortless exchangeability between these disparate services.
- Migrated existing web applications from embedded HTML to PHP and XSL Templates.
- Migrated existing web applications from PHP 4 and MySQL 3 to PHP 5 and MySQL 5.
- Used PEAR repository for XML_RPC, cross-platform database drivers and SOAP extensions.
- **Maintained multiple, distributed Linux servers running Gentoo Linux under heavy load (flash traffic of 100,000 or more people per hour during concentrated media campaigns).**

Tickets To Go, Pearland, TX (Houston suburb). Jan 2005-May 2006. [W2]

- **Job Titles: Search Engine Marketer/Optimizer, Web Application Developer, System Administrator**

- Sole IT employee for a medium-sized ticket broker business.

Estimated 80% of all sales were from e-commerce, of which I was totally responsible.

Search Engine Optimizer (SEO) in heavily competitive secondary ticket market.

Maintained multiple, distributed and proxied Linux servers running at various points Debian, Fedora FC

2, and finally Gentoo Linux.

- Troubleshooted office computers, network infrastructure and administrated remote servers.

Setup and maintained network services such as proxy servers, email exchanges, and DNS servers using

100% open source, typically GPL, software.

- Maintained approximately 40 websites, chief of which was TicketsToGo.com, built around the

TicketsNow / Event Inventory SOAP WebServices, using PHP 4, MySQL 4, XSL and NuSOAP.

xMule, 2003-2008 (open source project).

- **Job Title: Project Lead**
- Maintained Drupal-based website: www.xmule.ws.
- The X11 Mule.

Creator and maintainer.

Started as LMule, the Linux port of the popular Win32 program eMule.

Over 120,000 lines of Object Oriented C++ code using the Qt3/4 toolkit.

Runs on any platform that supports both GTK+ and X11, including MacOS X and Windows XP.

Translated into 30 languages.

Over 50 at least one-time contributors and 20 active developers.

Over 1 million downloads, 5 million including direct forks.

Supported and included by every major Unix distribution.

PHP-Egg, 1999-2003 (open source project).

- License: GPL

Originally coded in PHP 2.0/Fi, migrated to PHP 3, 4 and 5.

Strived to be a fully-compatible Eggdrop bot for a host of disparate IRC networks.

Had a cult following in the pre-IM days as *the* most easily extensible IRC bot.

Translated to 15 different languages.

Database engines for MySQL 3, 4, 5 (both old and new), PostgreSQL 7 and 8, Sybase, and Oracle.

Fully Object Oriented, modularized and extensible.

Still one of the more advanced PHP-based daemons.

Contract work, Miscellaneous parties. Nov 2001-Mar 2003.

- Numerous short- and long-term contract jobs, ranging from complex C++ ActiveX controls designed for

Visual Basic projects, migrating C++ applications from Windows to Unix/Linux and vice versa, to e-

commerce PHP and MySQL websites.

- Became specialized in 2002 around refactoring existing codebases, particularly PHP and MySQL.

Handled numerous Linux and BSD server installations and upgrades for corporate clients;

developed

hands-free installers for a number of common Linux distributions, particularly Debian and RedHat.

Autogg, 1998-1999 (open source project).

- A GPL-licensed front-end to the emerging Ogg Vorbis audio codec.

Written in C++ with the Qt framework

Backend progress bar was integrated into the existing oggenc.

Project handed off in 2000 to Magnar J. Grødem and available at

<http://autogg.sourceforge.net/>.

EWord Search, 1996 – 2000 (open source project).

- A seek-and-find word game with text-based puzzle files.

Originally written in Visual Basic 4.

Ported over the years to Visual Basic 6, Perl/Tk, C++ Qt, Microsoft Visual C++ 6, Java 1.2, C++ wxWidgets, and in 2005, PHP 5 and AJAX.

- Voted to be in the 2000 Australia Cybersource's Charity CD, the Open CD:

http://www.cyber.com.au/about/charity_fundraiser_cd_kit.pdf

Arizona Research Labs, University of Arizona, Tucson, AZ. Aug 2000-Oct 2001.

- **Job Title: Programmer**
- Part of a team of three who migrated University of Arizona's ARL websites from PHP 3 to PHP 4 and

MySQL 3.23.

- Created <http://flyfood.arl.arizona.edu/> B2B e-commerce sites, which included PDF output, software for integrating barcode-PDA readers and a cross-platform GUI in C++ and the Qt Framework, deployed on FreeBSD, Windows 2000, and Linux.