

# Eric Gach

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An accomplished Software Engineer specializing in Object-Oriented Design and Analysis with extensive experience in implementation of large-scale applications.

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## Summary of Qualifications

- Over 10+ years of Object-Oriented Design and PHP Development experience with developing large-scale applications for several types of organizations.
- Strong knowledge of PHP ranging from 4.0 to the most recent version of the 5.5 branch.
- Strong knowledge of PHP and MySQL working together over an Apache web server (LAMP stack).
- Experience in developing large-scale and enterprise web applications including online banking and Search Engine Optimization (SEO).

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## Technical Expertise

**Proficient In:** PHP, Python, JavaScript, Bash Scripting, HTML, CSS, XML

**Familiar With:** Smarty, C#, C++, C, .NET, Java, VB

**Frameworks:** CodeIgniter, CakePHP, ZendFramework, Laravel, Django, Bootstrap 3, Drupal

**Systems:** Linux (Gentoo, Debian, Ubuntu, Fedora, CentOS), Windows (2000, XP, Vista, 7)

**Software:** Apache, MySQL, PostgreSQL, SQLite, MS SQL Server, Git, SVN, CVS, Crystal Reports

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## Professional Experience

### Ace Info Solutions Software Developer

<http://www.aceinfosolutions.com/>  
2016 - current

Developer for National Weather Service (NWS) Internet Dissemination System team (NIDS) maintaining multiple critical weather related sites and applications. Helped to maintain legacy applications along side of rewriting other legacy applications to update them to a newer framework that will be used in future development.

- Became primary developer for NWSSChat application which is used in many ways for communication between weather offices, spotters, and emergency personnel. NWSSChat is made up of many technologies including PHP, Python, and JS. It is backed by a PostgreSQL database that uses postgres.
- Maintained and updated custom in house PHP CMS solution that drives all content on <https://www.weather.gov/> This includes the admin back end as well as the display front end. Added multiple new widgets for CKEditor to be used on the site to add functionality to the existing system.
- Aided in rewriting the forecast application to implement the new version of the widgets (or components) to be used in the new framework. Also helped implement various other features and fixes as the project progressed.
- Aided in creating a new JSON-LD API to provide weather data for the forecast application as well as for public consumption. Designed endpoints for various weather office information needed to pull into the components of the new forecast site.

### URL Digital Media Web Developer

<http://www.urldigital.com/>  
2015 - 2016

Responsible for developing and maintaining multiple Drupal 7 sites with custom modules and themes based on Bootstrap 3. Also maintained legacy admin portal software that allowed the business to receive and process incoming gold, silver, and jewelry.

- Created e-mail templates for transactional e-mails that were to be responsive and cross client compatible. E-mails leveraged a common header and footer to help alleviate some legacy bloat.
- Helped to create, build, and maintain new production environment using the docker software. Environment was setup locally, built and tested, then put into AWS during our release cycle.
- Rewriting current client portal to integrate directly with Drupal as well as upgrading all sites to use Drupal 8 and our own custom theme based on Foundation 6.

**Farmobile**  
**Web Developer**

<http://www.farmobile.com/>  
2014 – 2015

Primary responsibility was to develop and maintain main website with e-commerce solution and customer portal. Helped switch the team from subversion to git to help improve how the team used VCS.

- Built main website from scratch using Python and the Django framework. Took layout concepts and converted them into HTML/CSS to complete main website design. Main website used satchless cart for e-commerce solution.
- Converted PHP based API to Python based API that supported OAuth2 for authentication. API was initially built to support in house iPad application, but was later released to clients for real time access to data.
- Converted PHP based dashboard to Python/Django. New additions to the dashboard included integration into Google Maps to display locations of customers on a map along with custom information pop-ups.

**Essential Elements (AerisPOS)**  
**Software Engineer**

<http://www.aerispos.com/>  
2009 – 2014

Project Lead on multiple enterprise level web based applications. Built managed and maintained many core applications from the ground up that are still used every day. Introduced VCS to development process to make managing production deployment much simpler.

- Created management portal for Android based social marketing tablets with rewards on top of the Laravel framework. Clients could login and manage the active campaigns that would be available to their customers from the tablets. Portal was also the end point for the tablets to sync data to our servers for reporting purposes shown in the portal.
- Web interface written in PHP/MySQL to talk to C# program that provided remote updates and parsed raw CSV file of data returned by interface. PHP interface also allowed setting of schedules to tell the C# program to send new data from the POS system.
- Setup and managed all production servers. Started with only a few servers containing Apache and MySQL to over a dozen real and virtual servers. Also responsible for load balancing hardware and software that supported thousands of self service kiosks and point of sale systems.
- Created monitoring website for kiosks and point of sale systems that served as the end point to connect each system to our database. Site was responsible for providing accurate accounting information to the reporting website that clients would use to generate sales reports and track labor.

**Noise**  
**Contract Developer**

<http://www.noisemarketing.com/>  
2009

To create and maintain existing pages within <http://www.chaseplus1.com/> site using CakePHP framework.

- Created FaceBook landing pages with tracking codes to show which landing pages were more popular.
- Created new Administrative section for site that included order processing and reporting.

**Digital Architecture**  
**PHP Developer**

<http://www.acalog.com/>  
2007 - 2009

To develop and maintain online catalog software. Software is built specifically with colleges and institutions in mind to make managing an online catalog with courses and programs user friendly and simple.

- PHP5 Diff – Object-Oriented class to parse output from system diff command and show changes in HTML documents to allow for version tracking.
- PHP5 Custom Sorting – Object-Oriented sorting solution that allowed for any items already existing within the application to be custom sorted by the customer.
- PHP5/MySQL - Implemented an Enterprise level into existing application that allowed management of multiple sites resources through one interface. This included refactoring some legacy code into an Object-Oriented Design.

**EnvirOx**  
**IT Specialist**

2006 – 2007

To support any end users needs and trouble shoot software and hardware related problems. Also to make changes to and maintain various company websites.

- Crystal Reports/MS SQL – Generated basic reporting that included sales information and other necessary

- company information.
- Communicated between fellow employees and off-site hosting location to resolve issues and gain more control over website.
- Monitored and maintained server backup software for multiple servers.

## Reliable Communications

### PHP Developer

2002 - 2003

To design, develop, and maintain several company websites and create customer service programs to aide sales callbacks.

- Visual Basic – Callback program to help sales track needed callbacks using a MS SQL database.
- PHP/GD Banners – Advertising banners for company that were generated dynamically.

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## Personal Experience

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### SiTech Library

<http://github.com/BigE/SiTech>

### Lead Developer

2006 - Current

A PHP5 based library to speed in the development of PHP applications. Current items include database wrappers, session wrapper, custom template solutions, and configuration parsers.

- PHP/PDO Wrapper – PDO wrapper to customize PDO even further and allow for extra functionality to be added to each database type supported.
- PHP Custom Template – Template engine based off PHP itself to take the HTML out of the code base.
- PHP Session Wrapper – Added extra functionality to sessions, making them more accessible, easier to maintain, and more secure.

### SimpleIRC

### Lead Developer

2003 - 2008

A simple implementation of the IRC protocol enabling ease of use for IRC. Includes existing software for an IRC bot and future support for a fully functional IRC client.

- PHP Bot – First implementation of SimpleIRC was written in PHP and included an IRC bot that served several channels for multiple types of lookups and searches.
- Python Implementation – Python version included same features as original PHP version but offered some newer features such as user tracking, re-loadable modules, and custom error tracking to prevent any code issues from killing the bot.

### DeskChanger

<http://github.com/BigE/desk-changer>

### Lead Developer

2013 - current

DeskChanger is a gnome-shell extension written in javascript and python using gjs for integration to GTK. The extension is a wallpaper slideshow with support for multiple profiles that can be switched on the fly.

- Python daemon provides all functionality to load the current profile and automatically change wallpapers on the interval specified. When loading the profile, the daemon will load folders recursively and validate that the files being loaded are images. Daemon also has the ability to enable DBUS server for interaction with the extension.
- Extension provides user interface controls to manipulate Python daemon through DBUS. Interface provides a way of viewing the next wallpaper as well as
  - Changing the order in which they display, ordered or shuffled
  - Stopping the timer that automatically changes the wallpaper
  - Show notifications through gnome-shell when events happen
  - Toggle other minor settings that effect both the daemon and extension

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## References

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*Available upon request.*