

*I'm a passionate developer, an open source advocate, and love empowering people through technology. I'm excited about creating things and sharing them with the world. I believe in being the change I want to see in my community.*

*I founded my local open source interest group and serve on the board of directors of New Community School, a non-profit public charter school for grades K-8.*

*I do lots of open source development. You can see it on GitHub.*

*I blog about tech and mental health at [funkatron.com](http://funkatron.com)*

*I've spoken at numerous conferences, such as SXSW Interactive, OSCON, Distill, Adobe Max, ZendCon, Madison Ruby, php|tek, Open Source Bridge, and more.*

- *Senior-level development skills in PHP, JavaScript and Python*
- *Expert in web application security and related security issues*
- *Strong background in web usability and interface design*
- *Skilled communicator; able to parse technical issues into palatable lay terms*
- *Experienced in leading development teams*

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## Technical Skills

**Like:** php, javascript, python, slim, flask

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## Experience

### Partner—Fictive Kin

November 2010 - Current

python, php, javascript, jquery, flask, slim, backbone.js, twig, zurb-foundation

Worked with teams of 3-4 people per project in various roles: front-end JS engineering, back-end PHP and Python engineering, API design, CLI utility creation, and more.

- Developed REST-ful APIs in PHP and Python
- Created FUnit, a testing microframework for PHP
- Created Resty.php, a simple, straightforward library for making HTTP requests and parsing responses
- Integrated Stripe payment processing
- Created data importers for external services (Twitter, Facebook, Flickr, Instagram, et al)
- Implemented backup to Dropbox capabilities
- Architected and implemented a complex Backbone.js-driven client side application, with supporting server-side code in Python/Flask
- Created and maintained Open Recipes, and open, free-to-access database of recipe "bookmarks" using Python and MongoDB

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### PHP and JavaScript Developer—HiiDef - Goodsie

April 2010 - November 2010

php, javascript, jquery, jqueryui

Worked on a team of three to create a top tier storefront hosting platform.

- Implemented the design and content administration system for live updating of storefront layout and content
- Implemented PHP-based view system to dynamically generate page layouts for realtime design preview in browser

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**Web and Security Archive Administrator** – CERIAS, Purdue University  
php, mysql, postgres, javascript, apache, linux, solaris

2002 - April 2010

Responsible for all aspects of public and internal web and FTP services, including interface design, information architecture, front-end coding, and back-end coding. Administrate web, FTP and SQL servers including Apache, ProFTPD, NCFTPd, PostgreSQL and MySQL. Hire and supervise 1-3 student web developers. Assess needs and recommend purchases for hardware and software. Provide security auditing and training for partners. Design print and web-based materials.

#### Highlights

- Designed and developed a web-based data management application framework to centralize personnel and project information using Apache, PHP and PostgreSQL.
- Developed a custom registration system for presenters at annual research symposium
- Proposed and implemented a new multi-server WWW/FTP services array, increasing security, speed and reliability
- Reworked print-based design and implemented it on web site. Implemented a “table-less” CSS layout scheme, decreasing page sizes and increasing accessibility levels
- Created a variety of print materials, poster templates, and presentation templates
- Designed and implemented a number of content management tools. Refactored site to use the ExpressionEngine CMS so non-technical users could update content
- Developed and presented content for seminar on web application security issues
- Performed web application security audits for various partners

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**Webmaster, Department of Mathematics** – Purdue University  
php, postgres, apache

2001 - 2002

Responsible for front-end, back-end, and graphic design aspects of department web site. Design and implement various web applications for public and departmental use. Update and maintain site content.

#### Highlights

- Designed and implemented web-based “self-service” scheduling system for teaching assistant office hours
- Created system for posting and tracking of quiz and test score data for thousands of students in 100-level math courses
- Converted the site from individual static HTML files to a PHP-based template system, dramatically increasing the ease of making site-wide design changes.
- Created and implemented a new aesthetic for the department web site

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**Supervisor of Web Development** – Golden Dome Media  
php, apache, javascript, mysql, postgres, irix

1998 - 2001

Supervise up to 10 web development team members. Assess needs and recommend purchases/hirings for hardware, software, and personnel. Create and maintain processes for web development and integration with sales and project management. Consult with clients on issues related to web marketing and usability. Coordinate departmental internship program, including interviewing and assessing candidates. Develop web sites for top-tier clients.

#### Highlights

- Created a PHP-based application development toolset, coding and page template standards, and site rollout system. Setup and development time reduced by up to 80%; coding error and debugging time reduced by 50%
- Created web-based content management system for use on a popular news site. Empowered content developers to administrate their site without programming skill. Programmer intervention reduced by 70%
- Proposed, installed, and administrated E-mail server for clients. Setup time reduced by up to 80%; provided new revenue stream
- Wrote a variety of documents that explained technical issues and requirements in lay terms for sales team and client use

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**Internet Specialist** – Golden Dome Media 1997 - 1998  
php, apache, postgres, javascript  
Design and implement web pages using HTML, Javascript, PHP, and SQL. Develop quotes and time estimates in conjunction with Director of Interactive Development. Deliver and assist with presentations and consultations with clients

**Highlights**

- Dramatically increased quality and quantity of web development, especially in areas of interface design and usability
- Created documents that outlined content delivery procedures for clients, reducing confusion and content cleanup/conversion time

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**Education**

**B.A. English (CS Minor)** – Indiana University South Bend 1993 - 1997

- Member, Phi Eta Sigma National Honor Society
- Dean's List, Spring 1997

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**Projects & Interests**

**Stack Overflow** – <http://stackoverflow.com/users/2310> *August 2008 - Current*  
Written 25 answers. Active in php.

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**GitHub - openrecipes** – <https://github.com/fictivekin/openrecipes> *March 2013 - July 2014*  
An open database of recipe bookmarks

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**GitHub - FUnit** – <https://github.com/funkatron/FUnit> *January 2012 - March 2014*  
A simple unit testing suite for PHP

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**GitHub - Resty.php** – <https://github.com/fictivekin/Resty.php> *December 2011 - February 2014*  
A simple PHP library for doing RESTful HTTP stuff

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**GitHub - inspekt** – <https://github.com/funkatron/inspekt> *February 2009 - April 2014*  
Inspekt is a PHP library that makes it easier to write secure web applications

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**GitHub - phpsecinfo** – <https://github.com/funkatron/phpsecinfo> *February 2009 - September 2011*  
PhpSecInfo provides an equivalent to the phpinfo() function that reports security information about the PHP environment, and offers suggestions for improvement.

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**GitHub - barstool** – <https://github.com/funkatron/barstool> *March 2010*  
A simple JSON-based document storage library for PHP, based on Lawnchair

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**GitHub - spazcore** – <https://github.com/spazproject/spazcore> *December 2008 - December 2011*  
Core libraries for creating client apps in HTML/JS runtimes

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**GitHub - spaz-webos** – <https://github.com/spazproject/spaz-webos> *January 2009 - September 2011*  
A microblogging client (Twitter, Identi.ca, StatusNet) for Palm webOS

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**GitHub - spaz-desktop-air** – <https://github.com/spazproject/spaz-desktop-air> *December 2009 - June 2011*  
The AIR version of Spaz Desktop

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**GitHub - Spaz-Enyo** – <https://github.com/spazproject/Spaz-Enyo> *March 2011 - December 2011*  
A version of Spaz targeted for tablet devices

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**GitHub - Spaz-Web-APIs** – <https://github.com/spazproject/Spaz-Web-APIs> *March 2011 - May 2012*  
Hosted Web APIs for Spaz

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**GitHub - ncs-notifications** – <https://github.com/funkatron/ncs-notifications> *December 2012 - March 2014*  
a web-based notification system for New Community School

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**GitHub - mandrill-tester** – <https://github.com/fictivekin/mandrill-tester>

*February 2013 - March 2013*

A web app to test mandrill templates

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**GitHub - Linkify** – <https://github.com/fictivekin/Linkify>

*February 2013*

A JS library to convert URLs and @usernames into HTML links

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**Spaz: A Twitter, Identi.ca and StatusNet client for Palm® Pre™, Windows, Mac OS X and Linux** –

<http://getspaz.com/>

javascript, html, css, php, webos

An open source microblogging client for desktop and mobile. I created and led this open source project for 5 years, managing a team of volunteers in development, documentation and customer support.

Founder

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**Who Do I Blame?** – <http://whodoiblame.com/>

slim, twig, monolog, faker, valitron, resty.php, funit

Enter your address and/or ZIP and find the federal elected officials to blame for your problems

Solo developer