

# Richard T Harding

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Seeking a position as a

## Web Application Developer

Web application professional with nearly eight years experience identifying areas of the business that can be assisted with implementation of software systems and then building those systems. Running all forms of IT from Windows and Linux system administration to technical support for staff and customers. Excellent communication skills and the ability to see a project from requirements collection through final testing and deployment.

### Goals

- I'd like to gain employment where I can develop productivity enriching web applications that make a significant difference to the users
- I'd like to be able to use my existing PHP expertise, but I'd also like to have the opportunity to work with Python as it is an amazing language and powerful web development tool.
- I'd like to work for a company that values automated testing in their development process along with code reviews and somewhere I can work on systems of increasing complexity in both data size and scope.

### Technical Skills

Platforms: Windows 2000-Vista, Debian, Ubuntu 5.04+

Languages: PHP4, PHP5, HTML, Javascript, Python, Bash

RDBMS: Mysql 4.0, 5.0 and Postgres 8.0+

Services: Apache, Bind, Proftpd, SSH, BackupPC, Squid, Postfix, Amavisd,

Tools: Subversion, Mercurial, Bazaar, Eclipse, Vim, PHPUnit, Doctrine ORM, Nose, Django, Symphony, Turbogears, SQLAlchemy

### Professional Experience

#### Web Developer (Telecommute, company in CA)

June 2007-Present

#### Traffic Engine

Clarkston, MI

Revamped several web applications to provide a more complete feature set. Helped improve the company framework to fill out the needs on both projects. Introduced tools such as Doctrine ORM as well as the jQuery and ExtJS javascript frameworks.

Applications developed include:

- The administration component of the SMarT platform. PHP5 based application providing a dual layered security model for our clients as well as the administration staff. Provided an easy to use Javascript enhanced interface and provided a set of remote callable JSON producing API calls for remote functionality.
- A revamp of the domain parking product. Used ExtJS datagrids and a custom set of JSON outputting API calls to provide a rich reporting interface. Allows for the exporting of data to spreadsheets. Uses a pluggable system for importing reporting data from a variety of online sources and aggregates that information using Python scripts to call specific API interfaces using urllib2 and twill.

Also supported normal operation of the company by providing assistance to clients through the ticket system. Developed a series of Python scripts (using CommandLineApp) that would parse various logs (some over 2gb/day) to help debug issues with the clients performance on the ad system. Used dsh to run these scripts in parallel and then aggregate the input later for ticket replies.

#### IT Director

July 2001-June2007

#### Michigan State University Flint Area Medical Education

Flint, MI

Handled all IT for non-profit institution. Created many PHP based applications to increase office efficiency. Used SVN and Mantis bug tracker for collaborative work with clients, employees and co-op student that I managed.

Applications developed include:

- MSU/FAME Research Forum Application. PHP5 based application for handling the submissions of the annual research forum. Handles submissions,

reviewing of submissions, scheduling, scoring, and winner selection. Also sold to ABSAME ([absame.org](http://absame.org)) and MCACS (<http://www.facs.org/chapters/michigan/>) for their own annual research forums.

- MSU/FAME Student Scheduling System.  
PHP4 based application used by staff to track contact information, schedules, grades for all medical students on campus. Manages merged forms and email notification system. Currently in consideration for deployment through MSU's College of Human Medicine.
- Consortium for Advanced Psychology Training Application System.  
PHP4 based application that handles the annual process of accepting applications for psychology fellowship openings. Includes file uploads, email notifications, private comments on applications, and basic scheduling management.

## Education

1999 – 2002

Bachelors of Computer Science from the University of Michigan, Flint

1996 – 1998

Worked toward a degree in Manufacturing Systems Engineering

## Extra Activities

I am always pushing to learn more and gain experience in new things. To facilitate this I participate in a n array of groups and organizations. Current involvement includes:

- 2<sup>nd</sup> year elected board member of MUG (Michigan Linux User Group) <http://mug.org>
- Member of the Michigan Ubuntu LoCo
- Member of the Michigan Python User Group (<http://groups.google.com/group/michipug>)
- Founder of the MiDevelopers.org group
- Editor for Python Magazine (<http://pymag.phparch.com/>)
- Author for Python Magazine. My beginner bzt article will be published in the September issue
- Early team member of the Gnome Do project and performed some programming, bug triaging, and answers support using Launchpad
- Member of the South East Michigan Woodworkers group (<http://semiww.org>)

I have also spoken at several events including:

- Presentations for PHP5, Mantis bug tracker, and Gnome Do for MUG
- Began the Ubuntu Packaging Jam process and helped document it with Daniel Holbach
- Presented a second Ubuntu Packaging Jam talk at Penguicon 2008
- I give a lightning talk every other week at SRT Solutions with topics including, Gnome Do, BZR, SVN 1.5 branching/merging, Using Python for scripting, and many more.

## Continuing Education

In an effort to continue new things I'm constantly reading and playing with material I might be able to use.

Recent and current objectives include:

- Learning Django
- Migrating from Turbogears 1 to the new 2
- Becoming more efficient with SQLAlchemy
- Learning the Dojo JS framework as a potentially better licensed ExtJS replacement
- Learning to strap existing code into tests

Books read/reading toward these goals:

- The Definitive Guide to Django
- Learning Website Development with Django
- Practical Django Projects
- Essential SQLAlchemy
- Working Effectively with Legacy Code