



# Resume: Wes Turner

*[westurner.org/resume](http://westurner.org/resume)*

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# 1 Summary

## Web Engineer

**Objective:** Develop and contribute my skills and experience to achieve organizational mission objectives

*What do I want to do?*

- Collaborate with a **team** of bright, motivated individuals
- **Learn** with agile, iterative, continuous integration and deployment
- Develop **applications, distributed systems, and portfolios**
- Secure web applications
- **Build** secure distributed systems
- **Create** beautiful interfaces

Experience:

- Independent web design and development entrepreneur
- Objective focused organizations
- Web applications / systems developer for university security organization
- Web applications / systems developer for hospital
- 10+ years Linux
- 5+ years Python

## 2 Employment

### 2.1 2009-2010: Programmer Analyst I @ UNMC

Section of Cardiology  
Knowledge Engineering Group (KEG)  
University of Nebraska Medical Center (UNMC)  
Initially contacted by and contracted through Kelly IT Resources  
Omaha, Nebraska, USA  
Feb 2009 - Oct 2010  
<http://unmc.edu/>

Supported **UNMC** and **NMC** Doctors, Nurses, and Patients

Overhauled a Python web app used for filing and printing medical orders

- Scoped, designed, coded, tested, and documented iterative releases
- Managed release and deployment to dev/test/prod architecture
- Instrumented and optimized for security, stability, and performance
- Supported application troubleshooting and maintenance

Increased productivity by shortening stakeholder and DevOps feedback loops

- Introduced XP, Scrum, Trac, Agilo, Mercurial, Test-driven Development, Nose
- Added an in-application feedback form
- Wrote user stories and functional/unit tests for new and existing specs
- Designed, tested, developed, and implemented prioritized user stories
- Introduced Continuous Integration; Hudson, Shell Scripting

Trained team members

- Refactored out of Zope towards WSGI and what is now Pyramid
- Introduced JSON API and cross-browser compatible JavaScript framework
- Identified and mitigated CWEs to reduce surface
- Consolidated into a single-page-application
- Extended and refactored interface; YUI GUI
- Created command line utility to simplify application management
- Added docstrings with parameter and return value specs; ReStructuredText
- Drafted narrative systems documentation; ReStructuredText, Sphinx

Standardized data model

- Extracted, mapped, and migrated MySQL / document object schema; SQLAlchemy
- Implemented transactions for consistency and referential integrity
- Implemented an integrated task queue; Celery, AMQP
- Wrote online and offline MySQL reports

Semantic web

- Prototyped RDFa templates; Jinja2 block recursion
- Developed an OWL-DL ontology based on DOAP, FOAF, and RDFS to describe a systems component graph and metadata; Sesame, Redland, Protg, Pellet, Turtle (TriG)
- Created tool to generate documentation reports from SPARQL queries of a component graph; RDFLib, FuXi, ReStructuredText

End of cycle resignation

- Hospital will be very satisfied with integrated Epic/MUMPS adoption
- Amicably resigned October 2010

## 2.2 2007-2008: Web Developer @ UN NUCIA

Nebraska University Consortium for Information Assurance (NUCIA)  
Nebraska University Center for Information Assurance (NUCIA)  
University of Nebraska at Omaha (UNO, UNOmaha)  
Peter Kiewit Institute (PKI)  
Omaha, Nebraska, USA  
January 2007 - March 2008

### Python Web Developer

- Scratched, forked, and extended another Content Management System
- Collaborated with graphic designer
- Designed and developed events calendar app
  - Created hCalendar microformat templates
  - Wrote iCal download views
  - Integrated Simile Timeline widget
- Extended MediaWiki syntax parser with JavaScript AJAX XHR
- Learned about web application and OS security
- Python: Django 0.97-1.0, Plone
- JavaScript: jQuery, Dojo
- MySQL, PostgreSQL

### Systems Infrastructure Management

- Intrapreneured “NUCIA Web Services” web systems acronym moniker
- Partitioned and virtualized a series of intranet applications
- Contributed platform to Vulnerability Discovery course

## 2.3 2005-2006: Systems Developer @ D-Line Marketing

Internet Marketing Firm  
V Internet Enterprises after reorganization  
Ballwin, Missouri, USA  
October 2005 - June 2006

### Systems Developer

- Prototyped video chat subscription logic; Java, Javascript, PHP
- Maintained VPN link to work remotely from school
- Tested various streaming services: Darwin Streaming Server, FMS, Red5

## 2.4 2004-2004: Dietary Aid @ Autumn View Gardens

Assisted Living Center  
Bethesda Healthcare  
Ballwin, Missouri, USA  
May 2004 - December 2004

### Dietary Aid

- Took order for and served residents and guests
- Served 6am breakfast, lunch, and 5 course dinners
- Served occasionally disgruntled residents with a smile
- Learned the true meaning of Service
- Resigned due to early HS graduation

## **2.5 2003-2004: Systems @ V Internet Enterprises**

Internet Marketing Firm  
Ballwin, Missouri, USA  
May 2003 - October 2004

Systems Administrator / Systems Programmer

- Supported day-to-day operations; RedHat Linux, DNS, Network Troubleshooting
- Developed affiliate conversion tracking system; PHP, MySQL
- Various automation tools: VB6, VB.net, SOAP, and XML-RPC

## **2.6 2002-2007: Independent Web Consultant**

Small Business Consulting  
West County; St. Louis, Missouri, USA

- Desktop Support
- Web Design and Development
- LAMP CMS Hosting, Configuration, Templating
- Custom Web Application Development: Web Frameworks

Clients:

- 2002: East Coast Pizza
- 2003: Gifts St. Louis
- 2003: LHS Wrestling
- 2004: Soda Jerks
- 2006-07: Superior Pro Painting; PHP, MODx, Python, Django

## **2.7 2002-2003: Construction Assistant @ East Coast Pizza**

Family-owned Pizza and Pasta place with Calzones and Strombolis  
Now Under New Management  
Chesterfield, MO, USA  
May 2002 - May 2003

- Construction Assistant: Oven-brick carrier and arranger, Tiler, Sweeper
- Cat-5 terminator
- Web Designer
- Web Developer

## **2.8 1996: Windows 3.1 Support**

West Omaha, NE, USA

- Helped neighbors fix their Windows 3.1 desktop QuickBooks installation
- QBasic, Dr. Sbaitso

## 3 Education

### 3.1 Omaha, NE, USA; St Louis, MO, USA

- Night Owl
- RPMs on 3.5" diskettes, Corel Linux, BeOS
- *Gifted* programs, summer classes, work-school program; graduated early
- Forensics: Policy Debate, Extemporaneous Speaking
- AP Computer Science B, AP Statistics 4
- QBasic, HTML, C++ for Dummies, PHP, IDLE, VB6, Java, VB.net, Ruby, Python

### 3.2 2007-2010: UNOmaha

University of Nebraska-Omaha  
BSc Management Information Systems (MIS)

- *MISSO: President* (page 9)
- *AISSC: Student Representative* (page 9)
- *Nebraska Humane Society Nonprofit Consulting* (page 8)
- Learned through collaboration by collaborating to publish *Principles of Collaboration*, Second Edition
- Intro C++, Perl, Oracle SQL, Systems Analysis, Distributed Systems
- Outstanding Technical Writing course remaining

### 3.3 2010-2014: Online Learning

Research Topics

- DevOps: SaltStack, Puppet, Cobbler, OpenStack
- Graph Theory: wrote a better fdupes with NetworkX
- Big Data: MapReduce, Pregel, Hadoop, Cloudera
- Linked Data: Triplestore CAP, Federation
- Go, Rust, Scala, Haskell
- Bioinformatics: <http://rosalind.info/users/westurner/>

Courses

- <http://class-central.com>
- <https://www.khanacademy.org/profile/westurner1>
- Introduction to Finance
- Machine Learning
- Introduction to Web Accessibility

## 4 Projects

See: <https://westurner.org/wiki/projects>

### 4.1 2007: Presense

Social Media Aggregation Concept & Gaussian Chart Generator  
UNOmaha: Graphical User Interface Design  
Team of three  
Responsible for concept, design, coding; presentation lead

- Google Charts API
- Prior to Task Queues

- BeautifulSoup
- Python, JavaScript, CSS, XHTML
- Django, jQuery, jQote, YUI CSS Templates
- Google AppEngine: Python

## 4.2 2007: Eagle Financial Life Insurance Quotes

Insurance Quote Models, Views, and Templates

UNOmaha: Distributed Systems

Team of four

Responsible for design, coding; presentation lead

Src: <https://bitbucket.org/westurner/eaglefin>

- Python, JavaScript, CSS, XHTML
- Django, 960.gs
- Google AppEngine: Python

## 4.3 2009: Nebraska Humane Society Nonprofit Consulting

Social Web Team

Social Media Consulting Recommendations Report

Adoption Listings Crawler & Website Prototype

UNOmaha: Special Topics Consulting

Merged teams of six and then ten

Responsible for concept, design, coding; presentation lead

Web: <https://nhs-adoptions.appspot.com>

Src: <https://bitbucket.org/westurner/nhs-social-web>

- Created collaboration plan: Team Site, Mailing List; Google Sites and Groups
- Researched strategies and metrics for maximizing social media goodwill
- Developed adoption listings harvester and static page templates
- Google AppEngine: Python (before the introduction of Blobstore)
- Task Queues, JSONP API
- Python, Django, JavaScript, jQuery, CSS, 960.gs, XHTML

## 4.4 2009: Tiger Solutions Web Based Course Management System

Django app for Listing Available Courses and Scheduling Course Requests

UNO: Systems Analysis & Design / Systems Design & Implementation

Team of four

Responsible for design, coding, and presentation

Src: <http://code.google.com/p/wbcms>

Src: <https://bitbucket.org/westurner/wbcms>

- Python, JavaScript, CSS, XHTML
- Django, YUI Layouts
- MySQL, SQL Server ODBC
- SVN
- Theory X but really Theory Y



## 4.5 2009-2010: UNO MISSO President

UNO Management Information Systems Student Organization

- Hosted monthly industry speakers
- Developed an approach for social media
- Created [facebook.com/UNO.MISSO](https://facebook.com/UNO.MISSO)

## 4.6 2009-2010: AIS Student Chapters Representative

Association for Information Systems Student Chapters

- Worked with AIS Student Chapter Presidents to found AISSC
- Created [facebook.com/AISSC](https://facebook.com/AISSC) and [twitter.com/AISSC](https://twitter.com/AISSC)
- 2010 AIS Student Chapters Outstanding Communications Award

## 4.7 2010: Help Haiti Project

WordPress Instance for Haiti Earthquake Awareness

UNOmaha: Managing in the Digital World

Three geo-distributed teams of four to five

Src: <http://code.google.com/p/helphaitiprject>

Responsible for project management

- Something like Theory Y
- User Stories as Tickets
- WordPress, Extensions

## 4.8 2010: Workhours

Personal project accounting and log processing tool

- Events (bookmarks, log entries, mtimes) to tuples to [SQL]
- Infinite-scrolling tables
- Pyramid, SQLAlchemy, Pyramid Restler REST API, DataTables

## 4.9 2010: Cloud Provisioning Research

Survey, evaluation, adaptation, and integration for DevOps efficiency

- Configuration Management
- Performance Monitoring
- Cobbler, Vagrant, Puppet, SaltStack, Ansible, Nagios
- DHCP, DNS, Apache, TLS
- <https://github.com/westurner/provis> (2014) – Packer, Vagrant, Salt, *Make*

## 4.10 2011: Flowstat

Pyramid polyglot sandbox

Src: <https://bitbucket.org/westurner/flowstat>

- Agglomeration of utilities: prime numbers, spectrum bands
- RDF integration: RDFLib, surf, virtuoso, deniz, SPARQL
- Pyramid + SQLAlchemy REST API

## 4.11 2012: Self Directed Learning

Web: <https://westurner.org/self-directed-learning/>

Src: <https://github.com/westurner/self-directed-learning>

- Autodidacticism
- Open Tools, Data, and Analysis for STEM Learning (“STEM Labs”)
- Science, Technology, Engineering, and Mathematics

## 4.12 2012: pycd10api

REST API wrapper for ICD 10 CM and PCS XML files

Web: <https://github.com/westurner/pycd10api>

- Python, Pyramid, Cornice, lxml, XPath

## 4.13 2013: redem

Personal reddit data liberation backup utility

Src: <https://github.com/westurner/redem>

- Reddit reader: comments, submissions, links
- Fetch last 1000 comments from Reddit
- Aggregate into static sortable and filterable HTML tables
- Python, PRAW, Requests, Jinja2, Bootstrap 2, DataTables

<https://westurner.org/redditlog/>

## 4.14 2014: Health-marketplace

Health marketplace web application

Src: <https://github.com/westurner/health-marketplace>

- Python, Django, Django-nonrel, Google AppEngine

## 4.15 2014: menuapp

Restaurant menu web application with [schema.org](http://schema.org) types

- Developed for a cupcake bakery FoodEstablishment
- Python, Django, Django-nonrel, Google AppEngine
- REST API: Django TastyPie

## 4.16 2014: healthref

Health reference demo application

Src: <https://github.com/westurner/healthref>

- Generates good HTML from an RDF Graph in Turtle Syntax
- Python, RDFLib, Jinja2, Pygments, n3pygments

## 4.17 2014: sphinxcontrib-srclinks

Src: <https://github.com/westurner/sphinxcontrib-srclinks>

## 4.18 2014: WRD R&D Documentation

Web: <https://wrdrd.com/docs/>

Src: <https://github.com/wrdrd/docs>

An outline of notes and points written in ReStructuredText.

- Tools Docs: <https://wrdrd.com/docs/tools/>

## 4.19 2015: pgs

Src: <https://github.com/westurner/pgs>

A bottle webapp for serving static files from a git branch, or from the local filesystem.

## 4.20 2015: elasticsearchjsonld

Src: <https://github.com/westurner/elasticsearchjsonld>

Generate JSON-LD @contexts from Elasticsearch JSON Mappings with Python and JSON-LD.

## 4.21 2015: pypfi

Src: <https://github.com/westurner/pypfi>

Parse a transaction CSV with Python

And then ofxparse:

- <https://pypi.python.org/pypi/ofxparse>
- <https://github.com/conda/conda-recipes/blob/762c8e5/ofxparse/meta.yaml>
- <https://github.com/conda/conda-recipes/blob/master/python/ofxparse/meta.yaml>

## 4.22 2015: pyglobalgoals

Src: <https://github.com/westurner/pyglobalgoals>

pyglobalgoals is a Python package, Python module, and a set of Python Jupyter notebooks for working with JSON-LD, RDFa, schema.org and The Global Goals For Sustainable Development (#GlobalGoals #GGs #SDG #SDGs) #GG17

- IPython notebook: <https://github.com/westurner/pyglobalgoals/blob/master/notebooks/globalgoals-pyglobalgoals.py.ipynb>
- Draft GlobalGoals JSONLD @context: <https://github.com/westurner/pyglobalgoals/blob/master/notebooks/data/globalgoals.jsonld>
- <https://westurner.org/opengov/un/#pyglobalgoals>

## 4.23 2016: djangotestapp

Src: <https://github.com/westurner/djangotestapp>

- #HashTags and @AtTags
- Django REST Framework, Haystack, ElasticSearch, python-social-auth OAuth2, Docker Compose
- <https://github.com/westurner/djangotestapp/blob/develop/djangotestapp/testapp/tests.py>

## 4.24 2016: Omaha Python Users Group

Homepage: <http://www.omahapython.org/blog/>

Src: <https://github.com/omahapython>

- Presented 2015: *pyglobalgoals* (page 12) during #GlobalGoals week: <http://www.omahapython.org/blog/archives/504>
- Contributed to the Omaha Python Data Science team
  - Created <https://github.com/omahapython>
  - Created <https://github.com/orgs/omahapython/teams/datascience>
    - \* Researched “Kaggle Best Practices” <https://github.com/omahapython/datascience/issues/3>
  - Created <https://github.com/omahapython/kaggle-houseprices>
  - Developed: [https://github.com/westurner/house\\_prices](https://github.com/westurner/house_prices)
    - \* NumPy, Pandas, scikit-learn, TPOT, auto\_ml

## 4.25 venv

Docs: <https://westurner.org/dotfiles/venv>

### venv.vim

Src: <https://github.com/westurner/venv.vim>

Docs: <https://westurner.org/dotfiles/venv#cdalias>

```
(:Cdhere, :Cdworkonhome, :Cdwh, :Cdhelp, ($ cdhelp))
```

## 4.26 hello\_world

[https://github.com/westurner/hello\\_world](https://github.com/westurner/hello_world)

Language basics / code samples in C++, CoffeeScript, Cython, Go, Java, Javascript, Python, and Ruby

## 4.27 Dotfiles

<https://westurner.org/dotfiles/>

<https://github.com/westurner/dotfiles>

<https://github.com/westurner/dotvim>

- Python package with documentation
- Configuration set for Bash, ZSH, Python, IPython, I3WM
- Configuration set for Vim

## 4.28 Open Source Contributions

Primarily small contributions here and there to show my appreciation.

See:

- <https://westurner.org/wiki/contributions>
- <https://westurner.org/wiki/github>
  - <https://githubcontributions.io/user/westurner>
    - \* 2017-01-02: “westurner made 7323 contributions to 399 repositories”

## 5 Contact Information

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