Resume: Wes Turner

westurner.github.io/resume

March 31, 2014

Contents

1 Summary

Full Stack Developer with an entrepreneurial spirit streak

Desire to:

- 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

Supported UNMC and NMC Doctors, Nurses, and Patients

Overhauled a web application 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 @ UNOmaha

Nebraska University Consortium on Information Assurance (NUCIA)
University of Nebraska at Omaha (UNO)
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
- AISSC: Student Representative
- Nebraska Humane Society Nonprofit Consulting
- 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

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
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
https://nhs-adoptions.appspot.com
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
http://code.google.com/p/wbcms
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

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 and 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
http://code.google.com/p/helphaitiproject

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

4.10 2011: Flowstat

Pyramid polyglot sandbox

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

4.11 2012: Self Directed Learning

http://westurner.github.io/self-directed-learning/

- Autodidactism
- 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
https://github.com/westurner/pycd10api

- Python, Pyramid, Cornice, lxml, XPath

4.13 2013: Redem

Personal reddit data liberation backup utility
https://github.com/westurner/redem
http://westurner.github.com/redditlog/

- 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

4.14 2014: Health-marketplace

Health marketplace web application
https://github.com/westurner/health-marketplace

- Python, Django, Django-nonrel, Google AppEngine

4.15 2014: Menuapp

Restaurant menu web application with 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
https://github.com/westurner/healthref

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

4.17 Open Source Contributions

Primarily small contributions here and there to show my appreciation.

From pandas/CONTRIBUTING.md :

    ENH: Enhancement, new functionality
    BUG: Bug fix
    DOC: Additions/updates to documentation
    TST: Additions/updates to tests
    BLD: Updates to the build process/scripts
    PERF: Performance improvement
    CLN: Code cleanup

Python

    Mailing List Feedback
    Patch to random.shuffle (rejected by rhettinger)
    http://reddit.com/r/python

Pandas

    ENH: Linked Data
    PERF/TST: generators in dataframe.from_records

Pyramid

    DOC: Update quick_tour.rst: Typo: with -> which

Pip

    site:github.com/pypa/pip westurner
    SECURITY: Signature research

scipy-lectures

    DOC: Showing the effects of rounding

scientific-python-lectures

    DOC: Updated Lecture-4-Matplotlib.ipynb: Syntax, FFMpeg workaround, clarification

Statsmodels

    DOC: Wikipedia page for Statsmodels (deleted)

Turses

    ENH: Add mouse scroll wheel support
    PERF: Inverted configuration keybindings to make reverse lookups faster

Tinkerer

    ENH: Added WAI-ARIA roles to templates

Initializr-bootstrap

    ENH: Added WAI-ARIA roles to templates

Sphinx

    ENH: Added WAI-ARIA roles to templates

ReadTheDocs

    ENH: Added WAI-ARIA roles to templates

sphinxjp.themes.basicstrap

    ENH: Added WAI-ARIA roles to templates and optional navbar-fixed-top setting

Salt

    DOC: dockerio module: docs syntax and formatting

IPython nbviewer

    ENH: Redirect github blob URLs to raw.github URLs

IPython-beautifulsoup

    SECURITY: XSS: JS/CSS Injection

version_information

    SECURITY: XSS: Escape JSON, HTML, and LaTeX strings
    ENH: Added check for pkg_resources version and extended __doc__

Bento

    DOC: refs to big-o cheatsheet, rosetta code

Python-mode

    DOC: Updated README.rst

4.18 hello_world

https://github.com/westurner/hello_world

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

4.19 Dotfiles

https://github.com/westurner/dotfiles
https://github.com/westurner/dotvim

- Configuration set for Bash, ZSH, Python, IPython, I3WM
- Python package with various Paver tasks
- Configuration set for Vim

5 Contact Information

westurner.github.io
linkedin.com/in/westurner
wes.turner@gmail.com
+1-402-522-6937