title

Resume: Wes Turner

author

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Resume

Summary

Systems 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

Employment

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, Protégé, 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

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

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

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

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

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

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

1996: Windows 3.1 Support

West Omaha, NE, USA

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

Education

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

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

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

Projects

See: https://github.com/westurner/wiki/wiki/projects

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

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

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

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

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

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

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

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

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

2011: Flowstat

Pyramid polyglot sandbox

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

2012: Self Directed Learning

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

* Autodidactism
* Open Tools, Data, and Analysis for STEM Learning ("STEM Labs")
* Science, Technology, Engineering, and Mathematics

2012: Pycd10api

REST API wrapper for ICD 10 CM and PCS XML files

https://github.com/westurner/pycd10api

* Python, Pyramid, Cornice, lxml, XPath

2013: Redem

Personal reddit data liberation backup utility

https://github.com/westurner/redem

https://westurner.github.io/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

2014: Health-marketplace

Health marketplace web application

https://github.com/westurner/health-marketplace

* Python, Django, Django-nonrel, Google AppEngine

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

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

hello\_world

https://github.com/westurner/hello\_world

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

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

Open Source Contributions

Primarily small contributions here and there to show my appreciation.

See: https://github.com/westurner/wiki/wiki/contributions

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