
Resume

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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

University of Nebraska Medical Center (UNMC)

Knowledge Engineering Group (KEG)

Section of Cardiology

Initially contacted by and contracted through Kelly IT Resources

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

University of Nebraska at Omaha

Nebraska University Consortium on Information Assurance (NUCIA)

Peter Kiewit Institute (PKI)

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

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/helphaitiprject>

Responsible for project management

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

4.8 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 Flowstat

Pyramid polyglot sandbox

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

4.10 Provis

Survey, evaluation, adaptation, and integration for DevOps efficiency

- Configuration Management
- Performance Monitoring
- Cobbler, Vagrant, Puppet, SaltStack, Ansible, Nagios
- DHCP, DNS, Apache, TLS

4.11 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

4.12 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

4.13 Pycd10api

REST API wrapper for ICD 10 CM and PCS XML files

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

- Python, Pyramid, Cornice, lxml, XPath

4.14 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

5 Contact Information

westurner.github.io

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