
About Me

Around the internet I can be found at:

- Twitter: <http://twitter.com/wolever>
- GitHub: <https://github.com/wolever>
- StackOverflow: <http://stackoverflow.com/users/71522/wolever>
- LinkedIn: <http://www.linkedin.com/in/wolever>
- Reddit: <http://www.reddit.com/user/wolever>
- Email: david@wolever.net
- GPG: [B230230D](#)

Technical Skills Like: python, javascript, vim, gevent, postgresql, mercurial, redis

Experience

Director - PyCon Canada

2012 - Current

python email

Organized Canada's first PyCon conference, [PyCon Canada](#). As one of the three board members, my responsibilities vary wildly, from organizing volunteers and drumming up interest at local user groups, to printing stickers and pixel-fitting logos.

The 2012 conference, which had 275 attendees, has received unsolicited praise: "the best small conference I've attended", and "I can't wait to come back next year"!

In 2013, we hope to see almost 400 attendees.

Additionally, I was proud to serve as head of session staff at [PyCon US 2013](#), where [Mathieu](#) and I were responsible for ensuring that — at the largest PyCon ever, with six tracks, 115 speakers, and 2,500 attendees — all of the speakers arrived at their talks prepared and on time. Many of the PyCon organizers were very impressed by my work, making comments like "I don't know where you found [David], but he was incredible".

Freelance developer

2012 - Current

python django javascript html postgresql

As a part-time freelance developer, I use Python, Django, and PostgreSQL to develop web-related software for my customers. I take pride in the quality of both my work and my estimates, and consistently deliver on time and within budget.

Principal software engineer - Luminautics Inc.

January 2010 - July 2013

python gevent django postgresql javascript distributed-computing

Lead development of the high-level software powering the Luminautics' large-format digital signage system. This includes the overall system architecture (many small services communicating through a message broker and RPC); browser-based HTML/JavaScript applications for media scheduling, management, and reporting; back-end services for real-time status monitoring, media management, transcoding, play reporting, and inventory tracking; and the software which runs on the screen's controller, including microsecond-accurate scheduling, fault-tolerant message buffering, and optimizations written in C where Python is too slow. My software has proven incredibly robust, with zero data loss and only two catastrophic bugs in the first year of operation.

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As one of two developers on this project, I designed and wrote approximately 15,000 lines of Python, and 10,000 lines of HTML/JavaScript/CSS. I designed and built the micro-service and messaging systems used both by our servers and the on-site display controllers (see also: [dirt](#)). My co-worker was responsible for developing the low-level software which runs on the screen controller and tile microcontrollers.

Our product can be seen at <http://luminautics.com/>

Technical logistics, mentor, instructor - *Ladies Learning Code*
wifi teaching mentorship

August 2011 - Current

Almost since their inception, I have volunteered with [Ladies Learning Code](#): setting up the [wifi network and power distribution](#) at events (which frequently have 100 or more attendees), mentoring attendees at events (assisting them while they learn HTML, CSS, PHP, JavaScript, Python, Ruby, Wordpress, and other technologies), and I instructing a course which taught attendees how to get their own website hosted.

Lead software engineer - *Verso*

2009 - 2012

python actionscript vrmf cnc numpy furniture configurator django

Lead development of an interactive furniture configurator which allows unskilled customers to customize every aspect (size, shape, color, style, material, etc) of cabinetry, then generates all the assets needed to efficiently construct that custom furniture (CNC machine code, purchase orders, etc).

I developed the core configurator (including the overall architecture, rule engine, undo/redo system, an innovative unit testing scheme, client/server framework and APIs, and portions of the user interface), which consisted of 20,000 lines of ActionScript, many application-specific Python libraries (including an innovative tool for generating furniture manufacturing instructions, and various 2D and 3D geometry manipulation libraries), plus portions of the client-facing website in Python, Django, and HTML/JavaScript/CSS.

Additionally, I developed a successful process for screening and interviewing developers.

This project has not yet been released.

Software Developer - *CEFET Campos, Prof. Rogério Atem de Carvalho*

2008

python

Created two open source Python-based web services to be used by the Brazilian Ministry of Education's service-oriented enterprise resource management system.

One of them, [PyOLS](#), is still available, but the other is not.

Software Developer - *University of Toronto, Prof. Greg Wilson*

2007

python http javascript html

Enhanced and supported DrProject, a now-defunct project management portal based on Trac. As the sole full-time developer, I was responsible for most aspects of the project: user support, bugfixes, release management, testing, and new development.

Education

Bachelor of Software Engineering

2006 - 2009

During my time at the University of Toronto I spent time in leadership positions with a number of different clubs and organizations, including the Computer Science Students Union (where, among other things, I organized a lecture by Richard Stallman, and secured sponsorship for our gaming events). I worked for two semesters under [prof. Greg Wilson](#), and was the only person in my operating systems course to implement a complete shell.

I have not yet completed my degree. Two thirds of the way through I decided that it would be more interesting, enjoyable and profitable to become a professional developer (I haven't yet regretted that decision).

Projects

Stack Overflow

stackoverflow.com/users/71522

February 2009 - Current

Written 618 answers. Active in javascript, python, html, django, sqlite and 24 other tags.

GitHub - pip2pi

github.com/wolever/pip2pi

December 2011 - March 2014

python packaging

pip2pi builds a PyPI-compatible package repository from pip requirements

Developed pip2pi to guarantee that Luminautics can deploy its applications without depending on PyPI.

GitHub - remora

github.com/wolever/remora

December 2011 - January 2012

javascript client-side-templating node.js google-closure amd

remora: less insane JavaScript templating

Developed Remora out of frustration with existing JavaScript-based templating languages. Works out-of-the-box with Node.js, Google Closure, AMD module systems, and vanilla web browsers.

GitHub - dirt

github.com/Luminautics/dirt

November 2012 - February 2013

python soa distributed-computing

dirt is a comprehensive framework for building Python applications which are part of a service oriented architecture.

Designed and developed dirt while building the back-end control and reporting services at Luminautics.

GitHub - jquery-wakeful

github.com/wolever/jquery-wakeful

August 2011 - May 2012

javascript jquery

A REST-aware RPC protocol and jQuery based client

Developed for Luminautics' to simplify RPC calls from the web browser.

GitHub - nose-parameterized

github.com/wolever/nose-parameterized

March 2012 - April 2014

Nose decorator for parameterized testing

GitHub - heapset

github.com/Luminautics/heapset

August 2012 - March 2013

A unique heap where items are ordered by score

GitHub - browsercast

github.com/wolever/browsercast

April 2013 - August 2013

An IPython notebook plugin which facilitates lecture recording and playback.

See David Wolever's Careers 2.0 profile at: <http://careers.stackoverflow.com/wolever>

