

Thea Barnes

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I've been working with open source software since around 1995, when I first installed Slackware on my computer after getting tired of the constant issues Windows 95 would have. Having used Solaris at a friend's house (his father used it for work), I decided to look for a Unix-like I could run. I stumbled across Slackware, and have used Linux as my primary operating system ever since. I still try out other OSes, it's a hobby of mine.

After using Slackware for about a week I decided I wanted to contribute something back, and started learning all I could about programming and package management solutions. Having had experience with C in school (which I later learned was unusual, as most schools jump from BASIC to C++), I started coding an improved yet backward-compatible package manager for Slackware. It never made it in to Slackware officially, but it was a good start.

I've loved programming since playing with LOGO as a kid, and open source work meant I could use it for something that would actually help people. So I've tried to contribute back to most of the open source projects I use, as well as creating open source projects of my own.

In the past six years or so I've grown very fond of working with Django and Rails, as well as being a strong advocate of HTML5 and CSS3. I've always been meticulous about standards compliance and following best practices for coding, and that has led me to love working with Python in general, and with web design/development.

Technical Skills

Likes: c++ python shell linux ubuntu gtk gnome qt5 html5 css3 javascript postgresql xml git github angularjs ruby-on-rails c# mono vala
Dislikes: php magento

Experience

Software Engineer / Web Developer – Awesome Barnes Consulting

Apr 2013 → Current

javascript, html, css, ruby-on-rails, php, firefox-addon-sdk, google-chrome-extension, wordpress-theming, wordpress-plugin-dev, wordpress, ajax, jquery, jquery-ajax, jquery-ui, jquery-plugins, requirejs, angularjs, django, magento, zend-framework2

Doing freelance software engineering projects, especially web development and browser extension development, managing business resources, software project management.

- Co-founded the company with my wife, Jennifer
- Became one of the top Google Chrome extension developers on Elance
- Developing Google Chrome Native Client applications in C++
- Creating modular, scalable backend code for e-commerce sites and web apps using Django, Ruby on Rails, and Zend Framework 2
- Building fast, responsive, elegant frontend web app code using AngularJS, Bootstrap, Foundation, and Angular-Material

Lead Engineer – Modern Ui

Jan 2014 → Jan 2016

javascript, html, css, php, ajax, paypal-api, amqp, mysql, doctrine2

Backend web development and server administration for multiple sites, utilizing PHP, MySQL, and Apache running on Ubuntu Linux.

- Development of database and backend technologies for a massive music licensing web store
- Refactored and improved a legacy codebase, for performance and better adherence to standards
- Implemented PHP OOP for KiwiFeed
- Implemented ORM using Doctrine 2 for WegetMusic
- Started migration to Zend Framework 2 for WegetMusic

President/Owner – No Dice, LLC

Oct 2012 → Oct 2014

html, html5, css, css3, javascript, jquery, twitter-bootstrap, python, django, oauth-2.0, django-socialauth, django-south, django-templates, django-admin, django-models, django-forms, django-views, django-urls, xml, json, yaml, django-rest-framework, python-requests, git, github, postgresql

Developed No-Dice.Net, a platform for roleplaying gamers (not yet completed).

- Co-founded the company and lead development
- Managed the project and handled devops and server administration
- Designed and coded Django HTML templates, LESS/CSS, and JavaScript
- Created the backend code in Python using Django
- Developed RESTful APIs for the site using Django REST Framework
- Maintained the company blog, llc.no-dice.net, as well as much of the company's social media presence

Chief Technology Officer – Archimedes Lever

Dec 2011 → Oct 2012

python, django, html, css, javascript, django-templates, bazaar

Managed the software projects, maintained the company's server, and managed the company's social media presence

- Planned and implemented version control and project management for ubookt.com
- Performed administration and maintenance of the server for ubookt.com
- Handled all of the devops for the company
- Maintained the company's social media presence
- Selected and implemented technical decisions for the server
- Assisted in development of the site design and code for ubookt.com using Django

Computer Technician – Stafford County

Jun 2000 → Sep 2000

hardware, windows, windows-nt, networking, peripherals, mainframe

Maintaining Microsoft Windows NT 4 workstations for government employees

- On-site troubleshooting of computer-related issues and providing in-person help for employees having difficulty with the workstation applications
- Repairing or replacing computer components, including monitors and peripherals as well as internal components
- Assisting network administrator with system and network issues
- Performing Windows NT 4 system administrative tasks

Education**A.S. Information Technology [in progress]** – Germanna Community College

2001 → 2014

windows, linux, sql, ms-access, adobe-dreamweaver, html5, css3, javascript, tcp, ip, networking, osi, cisco, cisco-ios, packet-sniffers, network-protocols

Projects & Interests**indicator-keylock in Launchpad** – <https://launchpad.net/indicator-keylock>

gtk+, gnome-3, ubuntu-unity, appindicator, libnotify, gettext, x11

An indicator that displays the status of the keyboard lock keys.

I created the project and currently maintain it. I also package it, and pull in user-submitted translations.

GNOME Lock Dialog Preferences in Launchpad – <https://launchpad.net/gnome-lock-dialog-preferences>

gtk+, gnome, gconf

GNOME Lock Dialog Preferences allows you to set various options for the screensaver lock dialog in GNOME.

I created the project, and maintained it until it lost relevance.

wmG – <http://sourceforge.net/projects/wmg>

c++, gtk+, window-managers, x11

A lightweight GTK+ based window manager meant for use with Gnome.

I created the project as an experiment with implementing a fully GTK+ based window manager for X11.

Slackware Package Tools – <http://sourceforge.net/projects/slaktool>

unix-shell, installation, setup, packaging, software-distribution, slackware, c, gtk+, gnome, glade, tar, gzip

Extended Slackware package management tools, added new features like those in other distro's package tools (ie rpm, deb, slp, etc..) and provide multiple interfaces including console, Gnome, and KDE.

I created and maintained the project.

GMonsters – <http://sourceforge.net/projects/gmonsters>
c, simulation, role-playing, c++, gtk+, gnome, network-protocols

A Gnome-based game in which you train, raise, and battle virtual monsters.

I created and developed both the server and client, as a personal project to practice client-server architecture.

djangocms-panel – <https://github.com/tsbarnes/djangoCMS-panel>
python, django

Feb 2015 → Current

Bootstrap panel plugin for Django-CMS

I created and currently maintain the project.

NTRU Keygen – <https://bitbucket.org/tsbarnes/ntru-keygen>
c++, gtk3, pthreads

Jan 2014 → Current

Generates keys for NTRU encryption, intended for use with Strongswan's NTRU support.

I created the project as part of contract for a client who wanted an easier way to set up Strongswan with NTRU support.

chrome-sipml5 – <https://github.com/tsbarnes/chrome-sipml5>
javascript, html5, css3, angularjs, sip, sipml

Dec 2013 → Current

A Google Chrome extension that adds a simple voice-only SIP client to the toolbar.

I created the project for a client on Elance, released it as open source, and continue to maintain it.

nacltunnel – <https://bitbucket.org/barnesconsulting/nacltunnel>
c++, openssl, google-nativeclient, google-chrome-app, html5, css3, javascript

Dec 2013 → Current

TCP tunnel as a Native Client app.

Now with OpenSSL support!

I created the project for a client on Elance.

amazonsmileredirector – <https://github.com/digitalgamemuseum/amazonsmileredirector>
javascript, firefox-addon, google-chrome-extension

Nov 2013 → Current

Redirect Amazon URLs to Amazon Smile

I created the project for a client on Elance, and currently maintain it.

django-bootstrap-themes – <https://github.com/no-dice/django-bootstrap-themes>
python, django, twitter-bootstrap

Nov 2012 → Current

Support for multiple Bootstrap themes in Django projects. Currently used by some of Facebook's internal software.

I created and currently maintain the project as part of my work on No Dice, as well as just for public use.

django-bootstrap-static – <https://github.com/no-dice/django-bootstrap-static>
python, django, twitter-bootstrap

Oct 2012 → Current

Simply the bootstrap static files WITH plugins

I updated the project for Bootstrap 2.2.0, and had the changes pulled into the upstream source.

Apps & Software

Metal Idea Factory – <http://metalideafactory.com/>
ruby-on-rails, ruby-on-rails-3, ruby-on-rails-4, devise, cancancan, activerecord, rails-activerecord

A crowdfunding platform for custom metalworking designs.

Developed the backend and assisted in implementing the frontend design, implemented the designer dashboard (including the widget framework), handled updating previous code to new payment platforms and the latest Ruby and Ruby on Rails versions.

Weget Music – <http://wegetmusic.com/>
php, doctrine2

License music for your videos.

Took over as lead developer, adapted code and database to using Doctrine ORM.

Linksert – <http://www.linksert.net/>
zend-framework2, doctrine2, php

Monetized link shortening service

Rewrote the codebase for Zend Framework 2.

Kiwi Feed – <http://kiwifeed.com/>
php, mysql, html5, css3, javascript, ajax, jquery

A 30,000 foot view of the information you need to know today

Responsible for backend engineering and development, as well as some frontend work.

No Dice – <http://no-dice.net/>
python, django, twitter-bootstrap, postgresql

No-Dice.Net is an ambitious project to modernize tabletop gaming. It will be a central hub for dungeon masters and players to store character sheets, create battle maps, develop...

I am the lead developer, and president of the company.

Readings

The C Programming Language – Brian W. Kernighan, Dennis M. Ritchie – <http://www.amazon.com/The-Programming-Language-Brian-Kernighan/dp/0131103628>

System Programming with C and Unix – Adam Hoover – <http://www.amazon.com/System-Programming-Unix-Adam-Hoover/dp/0136067123>

GTK+ /Gnome Application Development – Havoc Pennington – <http://www.amazon.com/Gnome-Application-Development-Havoc-Pennington/dp/0735700788>

Magento PHP Developer's Guide - Second Edition – Allan MacGregor – <http://www.amazon.com/Magento-PHP-Developers-Guide-Edition/dp/1783554193>

The Definitive Guide to Django: Web Development Done Right (Expert's Voice in Web Development) – Adrian Holovaty, Jacob Kaplan-Moss – <http://www.amazon.com/The-Definitive-Guide-Django-Development/dp/143021936X>

why's (poignant) guide to Ruby: in color – why the lucky stiff – <http://www.amazon.com/whys-poignant-guide-Ruby-color/dp/1512212938>

Tools

First Computer: IBM PC-XT 286

Favorite Editor: Atom