

# Nolan Brubaker

## Programmer

**Email:** [nolan@nbrubaker.com](mailto:nolan@nbrubaker.com)

**GitHub:** <https://github.com/nrb>

## Education

Bachelor of Science in Informatics with concentration in Computer Science, December 2010. Indiana University South Bend, South Bend, IN.

## Technical Skills

**Operating Systems:** OS X, Linux, Windows (client and servers)  
**Languages:** Strong skills in Python, intermediate knowledge of Erlang, Ruby, JavaScript, SQL  
**Database Systems:** PostgreSQL, Microsoft SQL Server  
**Project Tools:** SVN, git, Trac

## Projects

**Packaginator:** Helped reorganize code for the [Django Packages](#) framework during PyCon 2010 Sprints.  
**django-uploadify:** Collaborator on [django-uploadify](#), a re-usable Django app that wraps the [Uploadify](#) multiple file uploader.

## Presentations

**ZODB:** PyOhio 2012, presented on the Zope Object Database for Python applications.

## Positions Held

**2012-present:** Web Developer, [Six Feet Up, Inc.](#). Implementing and maintaining client Plone and Pyramid web sites and web apps.

- Implemented PubSubHubBub 'hub' and 'client' servers in Pyramid and Plone for syndicating content between various intranets.
- Wrote and designed a Pyramid- and SQLAlchemy-based OpenID server
- Implemented and maintained Pyramid package templates to make starting projects more efficient.
- Refined Solr-based searching on client sites.
- Provided technical estimates and guidance to project managers and customers for project implementations.
- Responsible for releasing client sites to testing, staging, and, production environments.

- 2011-2012:** Freelancer, specializing in Python and Django. Clients include: [Eldarion](#), [Red Post](#), [Carbon Black](#)
- Implemented a JavaScript bus route tracking component for Red Post digital signs.
  - Extended a Rails- and MongoDB-based money transfer kiosk.
  - Contributed re-usable Django apps for the Pinax project.
  - Implemented Django apps for communicating with GIS Java server
  - Began an implementation of a DoD vulnerability report based on the Carbon Black security monitoring software in Flask.
- 2010-2011:** Research Programmer - [Center for Research Computing](#), University of Notre Dame. Helped faculty and students utilize web technologies in their research. Some highlights:
- Developed an HTTP-based peer-to-peer protocol and chat system in Python (using [Flask](#)) and JavaScript that supports several thousand simultaneous clients, along with a testing framework.
  - Began a framework based on [Django](#) and [Celery](#) for launching, managing, and reporting on jobs based on open source command line tools for monitoring environmental change. Originally prototyped in Erlang
  - Implemented a Django app to generate dynamic data for a Flash application meant to use static XML files.
  - Created web crawler that searched for words within poems on the web, and provided information on the pages it found for use with [visualizations](#) by an arts professor.
  - Wrote a JavaScript prototype implementation of interactive subtitles and elements associated with an HTML5 video.
  - Implemented project workflows based on Subversion and Trac.
  - Trained other programmers in better practices, like unit testing, source control, and bug tracking.
- 2006-2010:** Network Administrator - [MapleTronics Computers](#). Managed internal network, as well as installing and managing networks, servers, and software for clients. Some of my main duties included:
- Automating processes through custom VBScript and PowerShell scripts.
  - Maintaining over 1,000 Windows computers, both workstations and servers using Kaseya management software and custom scripts.
  - Integrated reporting across several different systems using Microsoft SQL Server Reporting Services and T-SQL.
- 2003-2006:** HelpDesk Representative & Retail Salesman - [MapleTronics Computers](#). Assisted customers with technology questions and purchasing decision