

Nolan Brubaker

Programmer

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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, C/C++, Java, PHP, bash

Database Systems: PostgreSQL, Microsoft SQL Server

Project Tools: SVN, git, Trac

Projects

Packaginator: Helped reorganize code for the [Django Packages](#) framework during PyCon 2011 Sprints.

django-uploadify: Collaborator on [django-uploadify](#), a re-usable Django app that wraps the [Uploadify](#) multiple file uploader.

Positions Held

2011-Present: Freelancer, specializing in Python and Django. Clients include: [Eldarion](#)

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](#) for launching, managing, and reporting on jobs based on open source command line tools for monitoring environmental change.
- 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 a arts professor.
- Wrote a JavaScript prototype implementation of interactive subtitles and elements associated with an HTML5 video.
- Implemented workflows based on Subversion and Trac.
- Trained other programmers in better practices, like unit testing and source control.

2006-2010: Network Administrator - [MapleTronics Computers](#), Goshen, IN. 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 computers, both workstations and servers. This included managing virtual machines with VMware ESX and Microsoft's Hyper-V.
- Integrated reporting across several different systems using Microsoft SQL Server Reporting Services and T-SQL.

2003-2006: HelpDesk Representative & Retail Salesman - [MapleTronics Computers](#), Goshen IN. Assisted customers with technology questions and purchasing decisions. A few of the skills I acquired during this time:

- Communicating technical concepts in a way that clients could understand and learn from.
- Finding compromises and solutions to mitigate problematic situations with customers.