

# Nolan Brubaker

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

## Goal

Simplify developer's lives and increases their effectiveness.

## 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

**Languages:** Strong skills in Python, intermediate knowledge of bash, Ansible

**Database Systems:** PostgreSQL

**Project Tools:** git, Jira, GitHub, Gerrit

## Presentations

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

## Positions Held

**2017-present:** System Engineer, [Heptio](#) Developing tools for managing Kubernetes clusters

- Implemented end-to-end testing for [Ark](#) on live Amazon Web Services clusters
- Designed Ark conflict handler plugin system

**2014-2017:** Software Developer, Rackspace, Inc. Writing Ansible playbooks and roles for installing OpenStack.

- Implemented Ansible playbooks and roles for the [openstack-ansible](#) project and [rpc-openstack](#) product.
- Triaged and prioritized bugs and feature requests from both community members and internal support staff.
- Led project for upgrading [openstack-ansible/rpc-openstack](#) code bases between Juno to Kilo and Kilo to Liberty codebases.
- Collaborated with community members and internal coworkers to write new feature specifications, online and in person.
- Wrote initial developer documentation for [openstack-ansible](#).
- Implemented unit and integration testing for existing Python dynamic inventory production code

- 2014:** Automation Engineer, Cox Media Group. Improving and maintaining tools for a large (40+) developer team.
- Implemented self-service jobs in Hudson/Jenkins for developers to start git repositories and caching PyPI packages.
  - Maintained custom bash and Python tools for wrapping applications, simplifying usage.
- 2013-2014:** Software Developer, Cox Media Group. Improving and maintaining a large scale Django CMS (10 million page views per day).
- Implemented retargeting pixel system to help serve unique ads to site visitors
  - Added methods for advertisement traffickers to manage Google Doubleclick for Publishers ads from within our custom CMS.
  - Wrote custom tools for managing our development environment
  - Documented existing Google ads integration library
- 2012-2013:** Web Developer, [Six Feet Up, Inc.](#). Implementing and maintaining client Plone and Pyramid web sites and 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.
  - Provided technical estimates and guidance to project managers and customers for project implementations.
- 2011-2012:** Freelancer, specializing in Python and Django. Clients included: [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 application.
  - Contributed re-usable Django apps to the Pinax project.
- 2010-2011:** Research Programmer - [Center for Research Computing](#), University of Notre Dame. Helped faculty and students utilize web technologies in their research.
- 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.
  - 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.
- Automating processes through custom VBScript and PowerShell scripts.