

Contact

www.linkedin.com/in/alfredodeza
(LinkedIn)
[twitter.com/alfredodeza/](https://twitter.com/alfredodeza) (Personal)
github.com/alfredodeza/ (Other)

Top Skills

Python
Linux
Git

Languages

English
Spanish
Portuguese
French

Publications

Big, fast, and stable storage on a budget
Easy and beautiful documentation with Sphinx
Operationalizing Machine Learning with Azure
Firewall uptime and security with iptables
Practical MLOps

Alfredo Deza

Author, olympian, Adjunct Professor at Duke
Marietta, Georgia, United States

Summary

Tremendously passionate about robust implementations, that are thoroughly documented, and tested. Have designed and implemented infrastructure that has reduced waste, clarified errors, with a positive performance impact.

I've lead teams and developed successful online courses advocating for cloud, machine learning, and engineering best-practices. I help others grasp difficult concepts and improve!

As a best-selling author, my main objective is to keep learning to spread the knowledge around.

Experience

Microsoft

3 years 5 months

Principal Cloud Advocate

February 2023 - Present (1 year 10 months)

Señor Cloud Advocate

July 2021 - February 2023 (1 year 8 months)

Duke University Pratt School of Engineering

Adjunct Assistant Professor

July 2022 - Present (2 years 5 months)

Durham, North Carolina, United States

Anchore

Software Engineer

January 2020 - June 2021 (1 year 6 months)

Greater Atlanta Area

Developer Advocacy tasks like presenting, explaining, and spreading the knowledge on how to manage security workflows in containerized environments.

Integrating the core product with multiple third-party systems like Github

Red Hat

5 years 7 months

Principal Software Engineer

May 2017 - January 2020 (2 years 9 months)

Greater Atlanta Area

Team Lead and mentor for junior engineers

Señor Software Engineer

July 2014 - May 2017 (2 years 11 months)

Greater Atlanta Area

- * Ceph release manager

- * Implemented a new tool (ceph-volume) to configure devices to work with Ceph, supporting, encryption, LVM, dmccache, and regular partitions.

- * Worked on the rados gateway agent, a Python tool to orchestrate multiple Ceph clusters over the Rados Gateway (RGW)

- * Re-engineered the Continuous Integration system for Ceph and related projects, with distributed cloud backends for disposable (ephemeral) worker hosts.

- * Created an elastic provisioning system for continuous delivery: an HA CI, that took 24 hour builds to just 45mins. **32 times faster**

- * Lead the ceph-ansible project

Inktank, Inc.

Software Engineer

July 2013 - June 2014 (1 year)

- * Introduced testing harnesses for all the various Python projects, giving instant feedback in development workflows (like Pull Requests)

- * Refactored the Ceph installation tool (ceph-deploy) for robust error reporting, cleaner interface, and thorough documentation.

- * Created a test reporting dashboard for Ceph (distributed) tests and a test analytic metric system to record test results and various other test metadata improving test result perception and overall results

- * Developed a Ceph Enterprise installer that handled various different package repositories and Linux distribution targets

- * Created a Python library to easily connect to remote hosts over SSH providing a clean interface to remote commands and remote output.

YouGov

Software Engineer

October 2012 - July 2013 (10 months)

Worked on several large applications for statistical and metric reporting:

- * Created a schema-based application for better error reporting of the core validation engine
- * Improved all documentation efforts by integrating Sphinx for every release
- * Adapted authentication methods on internal APIs to support both new and older systems.

Cox Media Group Digital & Strategy Team

Software Engineer

July 2011 - October 2012 (1 year 4 months)

Atlanta, GA

Worked on the biggest Django platform for over 100 media companies, specifically:

- * Designed and implemented a multi-application configuration interface overhaul.
- * Created an API to administrate large SMS alerts with integration on the news platform
- * Revamped all the unit test design for a faster, leaner, and more granular execution improving error reports.
- * Led an effort for improving the knowledge on best testing practices with Python.
- * Improved the asynchronous interface to deliver videos to all news outlets, lowering the average wait time on the platform from several hours to less than ten minutes from publication time.
- * Improved all documentation efforts for the platform with auto generation of it via Sphinx.
- * Developed and implemented a metric tracking solution for the entire platform based on StasD and Graphite that was able to track anything in the platform with a very simple API.

ShootQ

Python Software Engineer

April 2010 - July 2011 (1 year 4 months)

- * Created a high availability financial transaction engine for deferred online credit card processing.
- * Designed a RESTful HTTP API for the Credit Card Transaction engine for interaction with other applications.
- * Implemented a de-duplication engine to match, filter and compare thousands of imported contacts in a few seconds

against database records.

* Developed a web service that translated incoming HTTP voice information from a call center to valid data that was posted to a third party ticketing system, creating tickets with useful customer information.

MaxMedia Design

Systems Administrator

April 2008 - May 2010 (2 years 2 months)

- Set up virtualized infrastructure (VMware) from scratch, involving:

Split Horizon DNS

Virtual MySQL Databases for staging and production environments.

Backup and Primary Domain Controllers (LDAP and SAMBA Integration)

Backup Domain controller replication.

Cisco VPN Tunneling

ISCSI SAN Setup.

Load Balanced Linux Apache Web Servers with round-robin and Direct Server Return.

Cisco Switches configuration and setup.

Automation of Apache Virtual Hosting with Trac and Python with mod_python.

Complete Subversion environment integration.

- DevOps Automation and Services with Python:

Assisted in building a CMS with Django and mod_wsgi (Python) for a Fortune 500 company

LDAP, Virtual Hosting, and SNMP services and configurations - fully automated

Studiocom

Linux Systems Administrator

April 2007 - April 2008 (1 year 1 month)

Responsible for administering all Linux servers which includes performance tuning, task automation, support and troubleshooting.
