

# Tyrel Souza

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*Senior Software Engineer with focus on Python, Django, Go. Technology enthusiast and IOT tinkerer. Private pilot. Amateur radio operator.*

## SKILLS

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- Python, Go
- Django, Flask
- Linux, Docker
- Git, Mercurial
- Postgres, MySQL, MariaDB
- Amazon AWS (S3 mostly)
- Google Cloud Storage
- REST APIs
- Kafka, Redis, memcached
- Sidekiq, RabbitMQ, Eclipse Mosquitto

## EXPERIENCE

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### EverQuote — Boston, MA — Senior Software Engineer

*January 2022 -*

- Automated a daily task for two analysts to be able to be run in only a few moments. Saves 18 hours per week of analyst time.
- Ported multiple scripts from Python2.7 to Python3
- Built a UI for manipulating database settings to aid in automating work for analysts.
- Migrating some command line tools from Python2 to Python3, adding new features.

### Tidelift — Boston, MA — Software Engineer III

*April 2018 - December 2021*

#### Command Line Interface<sup>1</sup>

- Developed binary CI/CD tool in Go to analyze software dependencies for security/licensing problems
- Added ability to create users and manage repositories from the command line
- Expanded personal project into company product

#### Tidelift core redesign and pivot

- Pivoted from solely a vulnerability scanner to supporting a catalog of open source dependencies
- Part of small team developing Tidelift 2.0/3.0
- Developed front end Vue, and back end Ruby on Rails

#### Expanded open source code under libraries.io<sup>2</sup> to support more languages.

- Added new languages manifests support
- Programmed in multiple projects with code all available as open source on github
  - Bibliothecary<sup>3</sup>: Added ability to detect dependencies in manifests for Poetry, pip-compile, pipfile, Conda
  - Conda Parser<sup>4</sup>: Developed ingestor of Conda environment files, parsing environment.yml files
  - Conda API<sup>5</sup>: Programmed web scraping of Anaconda to detect new packages, and REST API endpoints for packages

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<sup>1</sup> <https://tidelift.com/cli>

<sup>2</sup> <https://github.com/librariesio/>

<sup>3</sup> <https://github.com/librariesio/bibliothecary>

<sup>4</sup> <https://github.com/librariesio/conda-parser>

<sup>5</sup> <https://github.com/librariesio/conda-api>

**Addgene — Cambridge, MA — Software Engineer*****March 2015 - March 2018***

- Wrote Django REST Framework API server behind a token-authenticated NGINX server
- Rewrote file storage backend to keep on Amazon S3 instead of local in-house file system
  - Released my own custom Django module as a result
- Trained non-developers in Python
- Helped start and expand a “non-developer developer” club

**Akamai — Cambridge, MA — Sr. Software Engineer Contractor*****July 2014 - March 2015***

- Wrote an API with Python/Flask that the front end could communicate with
  - Checked if email was a valid user in Salesforce, then sent the user an email from a template
- Rewrote the backend for an internal dashboard to load data in 0.1 second, down from 10 seconds

**Propel Marketing — Quincy, MA — Software Engineer*****September 2012 - July 2014***

- Built CMS to host and build hundreds of customer websites using Django, jQuery, Bootstrap
- Created custom widgets, custom styling, custom templates, and more

**Appropriate Solutions Inc — Peterborough, NH — Software Developer*****July 2010 - September 2012***

- Built multiple client websites in Django, jQuery, Bootstrap.

**EDUCATION**

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Keene State College - B.S. Applied Computer Science, Minor in Mathematics (2010), Dean’s List(2006)

**PERSONAL PROJECTS**

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**Django DBFileStorage<sup>6</sup>**

- Goal: to continue running CI tests on a remote storage when working on moving file storage to S3 without incurring additional AWS charges.

**VOLUNTEERING**

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Boston Athletic Association Amateur Radio Operator - 2019 Boston Marathon

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<sup>6</sup> <https://gitlab.com/Tyrel/django-dbfilestorage>