

Tyrel Souza

Chapel Hill, NC – (###) ###-#### – #####@#####.dev – https://tyrel.dev/

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

SKILLS

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

EXPERIENCE

Tidelift — Boston, MA — Software Engineer III

April 2018 - December 2021

Command Line Interface¹

- 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.io² to support more languages.

- Added new languages manifests support
- Programmed in multiple projects with code all available as open source on github
 - Bibliothecary³: Added ability to detect dependencies in manifests for Poetry, pip-compile, pipfile, Conda
 - Conda Parser⁴: Developed ingestor of Conda environment files, parsing environment.yml files
 - Conda API⁵: Programmed web scraping of Anaconda to detect new packages, and REST API endpoints for packages

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

¹ <https://tidelift.com/cli>

² <https://github.com/librariesio/>

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

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

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

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

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

PERSONAL PROJECTS

Django DBFileStorage⁶

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

VOLUNTEERING

Boston Athletic Association Amateur Radio Operator - 2019 Boston Marathon

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