

Tyrel Souza

Chapel Hill, NC – [REDACTED] – [REDACTED]@[REDACTED].[REDACTED] – <https://tyrel.dev/>

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

EXPERIENCE

EverQuote — Boston, MA — Senior Software Engineer

January 2022 -

- Ported a Python2.7 monolith to Python3 microservices.
- Automated a daily task for two analysts to be able to be run in only a few moments which saves 18 hours per week of analyst time.
- Built a UI for manipulating database settings to aid in automating work for analysts.
- Migrated a handful of repositories from CircleCI testing to GitHub Actions.
- Ported multiple long running scripts from Python2.7 to Python3.
- Migrated some command line tools from Python2.7 to Python3.
- Migrated alerts system platform from PagerDuty to Opsgenie.

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

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.

SKILLS

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

EDUCATION

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

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>