

Tyrel Souza

Chapel Hill, NC — (603)-499-7433 — email@tyrel.dev — https://tyrel.dev — https://linkedin.com/in/tyrel-souza

Senior Software Engineer with focus on Python, Django, Go (Golang). Technology enthusiast and IOT tinkerer. Cyclist. Private pilot. Amateur radio operator. Notary Public.

EXPERIENCE

EverQuote — Boston, MA — Senior Software Engineer

January 2022 - June 2023

Consumer Engagement Team

- Launched a web service using Go and React (in TypeScript) to assist Sales Reps to provide alternative insurance company matches.
- Transitioned multiple projects from Atlassian Bamboo to GitHub Actions.

Email Remarketing Team

- Ported a Python2.7 monolith to Python3 microservices using FastAPI.
- 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 and command line tools from Python 2.7 to Python 3.
- 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 (Golang) 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
- Worked on many Sinatra microservices

Expanded open source code under libraries.io² to support more languages

- Added new languages manifests support to multiple microservices
- Programmed in multiple microservice projects with code all available as open source on github
 - Bibliothecary³: Added ability to detect dependencies in manifests for Poetry, pip-compile, pipfile
 - 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

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>

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

- Wrote code to support front end ecommerce site, and back end inventory management system using Django, Django Rest Framework, jQuery, Bootstrap
- 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
- Created microservices to support 3rd party API integration

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
- Internal tool to upload sales leads in Ruby on Rails

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

- Built multiple client websites in Django, jQuery, Bootstrap

SKILLS

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|---------------------------------|----------------------------|----------------------------------|
| ● Python, Go, Ruby | ● Git, Mercurial | ● REST APIs |
| ● Django, Flask, FastAPI, Rails | ● Postgres, MySQL, MariaDB | ● Redis, memcache |
| ● Linux, Docker, Kubernetes | ● AWS, GCP | ● Sidekiq, Kafka, RabbitMQ, MQTT |

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>