

☎ (347) 227-1741

✉ 620 Wilson Ave PMB #245
Brooklyn, NY 11207

💻 proofreader@gmail.com

🌐 <https://www.dtdata.io>
EVERYTHING YOU MIGHT EVER WANT TO KNOW
ABOUT ME! LINKS TO LINKEDIN, GITHUB,
HOBBIES & MORE!

DAVID TAYLOR

PYTHON DEVELOPER:
GENERAL BACKEND, DATA SCIENCE AND
DATA ENGINEERING

SKILLS (Underlined = used in Production)

PYTHON

Mid-advanced level (8/10?), OOP
& Functional, Multithreading,
Asyncio, Best Practices for
maintainable, documented
Pythonic code, PyTest, Nuitka,
PyCharm, VSCode, Jupyter

DATA

Pandas, Pandas, Pandas, Numpy,
Scipy, Numba, Dask, PySpark,
Datatable

DATA VISUALIZATION

Matplotlib, Seaborn, Bokeh,
Plotly, Tableau, writing directly
to SVG XML; published in books

MACHINE LEARNING

Scikit-Learn, H2O.ai, Keras,
Dataiku Data Science Studio,
Domino Data Labs

DATABASES

PostgreSQL, SQLite, MySQL
Python DBAPIs, SQLAlchemy &
Peewee, Hadoop/Parquet

AWS/APACHE

EC2, S3, VPCs, Redshift, Elastic
MapReduce, Livy, Airflow,
Lambda

DATA MODELING

Star & Snowflake schemas

NETWORKING/WWW

REST APIs, SOAP APIs, Flask for
REST, Requests, Tornado,
BeautifulSoup/lxml, Selenium,
Scrapy

PROFILE

Autodidactic/self-taught Python Programmer for 16 years, 8 years full-time. No computer science degree, so I read about it. A lot. Worked a lot in data science and data engineering, but multi-skilled. Obsessed with technical debt. Creative and robust troubleshooter and just plain hard worker. Committed to teamwork. My goal in life is to be useful.

PROFESSIONAL EXPERIENCE

2019 -

FREELANCE PYTHON DEVELOPER

Mostly remote webscraping gigs to pay the bills while I finished my Udacity Data Engineering Nanodegree

2017-2019

PYTHON DATA SCIENCE SUBJECT MATTER EXPERT

Aviva Canada general insurance (Montreal)

- Mentoring and training Python and software engineering best practices for 30+ member data science team, many of whom were actuaries with no Python experience
- Expert in delivering Minimum Viable Products in record time in robust fashion (involving LOTS of data engineering)
- Subject Matter Expert and company-wide trainer for Dataiku DSS Data Science Platform (70+ users)

2015-2017

SENIOR DATA SCIENTIST

Aviva Canada general insurance (Montreal)

- Pioneered use of Python and Machine Learning in one of Canada's largest insurance companies, mentored team of actuaries and data scientists
- Pioneered adoption of Best Practices in software engineering for python science, such as PEPs, JIRA, Git, Linux, Confluence/documentation in general, Cloud Computing, logging, linting, testing, CI, CD, REST APIs
- Go-to troubleshooter for finding solutions to sudden problems such as webscraping and integrating tools such as Hadoop/Impala and Artifactory

2013-2015

FREELANCE PYTHON DEVELOPER

Mostly content marketing and data journalism, many for a Florida marketing firm called frac.tl. Numerous... (cont'd)

SKILLS (CONTINUED)

NATURAL LANGUAGE PROCESSING

NLTK, Gensim, Word2Vec, Doc2Vec

DEVELOPMENT TOOLS

Git, JIRA, Bash, Docker, Travis, tox, Appveyor, Jenkins

OTHER SKILLS

Excel/VBA and integrating Python with it, PIL image manipulation, PDF parsing, Adobe Photoshop & Premiere

SKILLS I DON'T HAVE

Most frontend; Flask other than setting up a simple REST API and a Bootstrap frontend, Django AT ALL. I do know Tornado though.

EDUCATION

NANODEGREE IN DATA ENGINEERING

(6 mos., Udacity, 2019)

COLLEGIATE DIPLOMA IN CHEMICAL TECHNOLOGY

(3 yrs., Dawson College Montreal, 2009)

BACHELOR OF MUSIC WITH HONORS

Composition, minor in Opera Performance, coursework in Linguistics

MAJOR ACHIEVEMENTS

- Semi-finalist for the 2015 Kantar Data is Beautiful awards
- Work Published in Houghton-Mifflin's *Best Infographics of 2015* and *2016*
- Perfect score (99.999 percentile) in 1989 Law School Admission Test!

PROFESSIONAL EXPERIENCE (CONTINUED)

(cont'd) ... satisfied clients for large-scale writing gigs and analyses and visualization of public and private datasets. Stories about the insights I gathered were published in, among others, Slate, The Atlantic, Salon.com, and the Financial Times. I was a semifinalist for the Data is Beautiful Data Visualization Awards and was published twice in Houghton-Mifflin's "Best Infographics Of The Year" coffee table-type books

2011-2013

PROTEOMICS RESEARCH ASST./MACHINE LEARNING

Concordia Univ. Ctr. Structural & Functional Genomics
A broad remit to facilitate the team of Dr. Justin Powlowski in producing, exploring, visualizing and publishing data related to thermophilic fungal enzyme enzyme characterization. Worked half-time in the Bioinformatics department as liaison between lab workers and IT staff; used Machine Learning (Supervised, Unsupervised, Reinforcement, NLP) to describe and predict proteomics results and scrape PubMed for papers that considered the same enzymes but identified them incorrectly

ADDITIONAL EXPERIENCE

2010-2013

PROTEOMICS TEAM LEADER

Concordia Univ. Ctr. Structural & Functional Genomics
Organized data collection, curation and validation, and supervised a staff of five Research Assistants (with Master's and Ph.D's) and Laboratory Technicians

2009-2010

PROTEOMICS BIOTECHNOLOGY LAB TECHNICIAN

Concordia Univ. Ctr. Structural & Functional Genomics
Promoted to team leader after a year

2008-2009

BIOTECHNOLOGY LAB TECHNICIAN

Dawson College (Montreal)
Head technician for AEC program for newly arrived immigrants to pass licensing board exams

1994-2008

CREATIVE WRITER, EDITOR/JOURNALIST, OPERA SINGER

Worked for major daily newspaper (Edmonton Sun), had numerous short stories and poems published in small-circulation literary journals, and performed operas and vocal classical music in Montreal in more than 20 languages.

If you actually want to hear me sing (I'm out of practice):
<http://bit.ly/davidtayloropera>