

Nick Hopewell

linkedin.com/in/nick-hopewell | nicholashopewell.com | github.com/NHopewell

Education

Trent University

B.Sc. Psychology (*Quantitative, with courses in Computer Science*)

April 2017, 3.9 GPA

Trent University

M.Sc. Applied Modelling and Quantitative Methods

December 2018, 4.0 GPA

Courses

Programming for Computer Science

Data Structures & Algorithms

Databases

Data Mining

Statistical Computing

Modelling Big Data

Introductory Statistics I & II

Advanced Statistics

Data Visualization

Computational Data Analytics

Statistical Power & Effect Size

Data Science capstone

Skills

Languages:

Python, R, SQL, C#, C

Software:

Django, Flask, SQLAlchemy,

MySQL, PostgreSQL, pytest

Data:

Pandas, dplyr, ggplot2, SciKit,

PySpark

Experience

Software Developer (Python) *Electronic Arts (EA)*

Jun 2021 - present

- Writing software to scrape dozens of online gaming forums, automate the creation of datasets, and populate a Snowflake database queried by data scientists to produce game insights.

Python Developer / Data Engineer *Canadian Federal Government*

Aug 2020 - Jun 2021

- Built a Django application (and designed an accompanying relational database) to allow researchers to search documents and metadata related to Operation Syrian Refugees. This helped reduce time to access data from days/weeks down to moments/minutes.
- Converted legacy SPSS Modeler data processing streams to PySpark ETL jobs. These streams feed into a classification model for triaging visa applications.
- Developed and tested a Python command line application which controls the execution of these ETL jobs.

Data Scientist *Canadian Federal Government*

Aug 2019 - Aug 2020

- Productized a classification model as a Flask application, enabling real time predictions to be made on raw database records.
- Developed and tested a data ingestion/preprocessing API (a layer built on top of Pandas and the SciPy stack).
- Developed Python modules to support operations, such as masking secret data for use off premises.
- Mentored junior developers & organized their work via Azure Boards.

Junior Data Scientist *Canadian Federal Government*

Jan 2019 - Aug 2019

- Transitioned clients from random sampling of their population of interest to a risk-based sampling model.
- Wrote data wrangling pipelines with Python, Pandas, and dplyr, reducing days of work for our clients into minutes of data processing.
- Conducted extensive data analytics and visualizations using R and the Tidyverse stack.

Graduate Teaching Assistant *Trent University*

Sept 2018 - Dec 2018

- Course: *Computational Data Analytics*
- Aided in the creation of programming assignments which focused on mastering the R data science stack (including tidy, dplyr, ggplot2 etc).