

# HUDSON ASH

## EXPERIENCE

Statistical Data Scientist

Jan-Apr 2018

**Capital One**

Toronto, ON

- Lead development of service which monitored all input data of all Canadian statistical models using Python (Flask, REST APIs, S3, EC2)
- Built unit and integration tests for all projects
- Integrated statistical model to predict the next table upload in order to alert subscribers of unexpected data delays

Data Scientist

Jan-Apr 2017

**PwC**

Toronto, ON

- Built three separate dashboards for departments containing ~4,000 employees for performance evaluations. Increased database reading **speed 40x over** through caching
- Developed and maintained complex Qlik dashboard for client's financial department containing over 20 distinct data sources
- Contributed to internal search engine's indexing method

Data Analyst

Feb 2016-Nov 2017

**Gowling WLG**

Ottawa, ON

- Created database of ~1.75 million trademark entries from XML data
- Presented Qlik dashboard to top Canadian executives
- Applied basic statistical analysis on data points and presented long-term changes in the Canadian data market
- Built webscraping tool for Canadian and US trademark sites

## EDUCATION

Mathematics

2014-2019

**University of Waterloo**

Waterloo, ON

- Aspiring to major in Statistics.
- Head orientation leader
- 3.9 GPA in Fall 2018 (17% increase from Spring 2018)

Business Administration

2014-2019

**Wilfrid Laurier University**

Waterloo, ON

- Aspiring to major in Marketing.

## PROJECTS

Python (Flask, PostgreSQL)

Jan 2019

**PayToWin**

- A website where you battle other users. You win if you have played more.

Python (Pandas, Requests)

Oct 2016

**NHL Team Compositions**

- Classified players into "types" and compared team compositions to success in the regular season

## TECHNICAL SKILLS

### Languages

- Python
  - Pandas
  - Sci-kit learn
  - Flask
  - Flask-Restplus
  - SQLAlchemy
  - Keras
  - BeautifulSoup (webscraping)
  - Numpy
- R
- C
- SQL
- Qlik

### Miscellaneous

- Microservice Design
- API Design
- Git / GitHub / Gitflow
- Clear code communication
- Testing frameworks

## EXTRAS

### Data Science

- Kaggle competitions: Titanic with logistic regression, CNN for MNIST fashion data
- Cutting edge CapsNet research project

### Competitions

- Winner of 2017 Datafest at University of Waterloo
- Finalist of IKEA Case Competition, 2016
- Semi-Finalist of ICE Case Week, 2017

### Interests

Hot Sauce | EDM  
Basketball | Hockey  
Powerlifting