

# PAUL FOURNIER

## Machine Learning Engineer

📍 Montreal, Canada

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## EXPERIENCE

### Machine Learning Intern

#### Dataperformers

📅 May 2018 – August 2018 📍 Montreal, Canada

- Designed a Social Media Data Analysis Pipeline in close collaboration with a Machine Learning Expert.
- Slashed the computation time by automating and optimizing the Twitter Data Processing using tweepy, numpy, pandas etc.
- Presented progress and ideas weekly and finished the production code in half the estimated time.
- Surpassed expectations by getting actively involved in Deep Learning Modeling, using Natural Language Processing (Sentiment Analysis) with Keras, Tensorflow.

### Full-Stack Web Developer Intern

#### Open Groupe

📅 May 2017 – August 2017 📍 Paris, France

- Developed the search engine for Commercial Off the Shelf Software on a cloud-based platform, using Elasticsearch, ReactJS, NodeJS.
- Worked in an Agile environment, successfully completed tasks daily and met sprint requirements.
- Conducted Unit Testing in JavaScript and Continuous Integration with Git and Jenkins.

## PROJECTS

### Alfred - Dashboard for Stock Market Analysis

- Designed an interactive web app with Plotly's Dashboard tool using Python.
- Integrated live visualizations of recent companies stock price variations and recent articles.
- Compiled Deep Q-Network Reinforcement Learning Models for Stock Market decision making that triples profit.

### Design Project – Soccer Video Analysis

- Lead a team of Software Developers to build a Sports Analytics Software Tool.
- Reported progress biweekly to team Supervisor James J. Clark, Director of the McGill Centre for Intelligent Machines (CIM).
- Automated statistics extraction from Soccer game videos with Deep Learning Algorithms in Python using YOLO9000 and the Google Cloud Platform.
- Doubled Object Detection accuracy with Computer Vision Video Processing technique: Super Resolution.

## HONORS & AWARDS



Code.Jam(2018) Machine Learning Hackathon - Second Position in the Natural Language Processing category.

## EDUCATION

Bachelor of Engineering, Major in Software Engineering, Minor in Mathematics

#### McGill University

📅 2015 - May 2020 📍 Montreal, Canada

Scientific French Baccalaureate, Mathematics Specialty, Honors

Lycée Français de New York – New York City, USA

Lycée Français International – Hong Kong, Hong Kong

📅 2013-2015

## VOLUNTEERING

### VP Finance

#### Engineering Investment Group

📅 2018 – 2019 📍 Montreal, Canada

- Balanced a budget of 8K.
- Chased for varied sources of funding obtaining 1.5k.
- Ran monthly activities that promote Finance and Investment.
- Organized a new Conference on Financial Technologies with 150 participants.

### VP Finance

#### CodeJam: DataDive

📅 2017 – 2018 📍 Montreal, Canada

- Promoted Data Science with a Hackathon welcoming 200 participants.
- Curated data-sets for the Finance competition.
- Balanced a budget of 10K for the competition and hardware and yielded a 3k profit.

### Rugby Coach Assistant

#### Rugby Coach Assistant

📅 2014 – 2015 📍 Montreal, Canada

- Supervised a team of 17 children between the ages of 12-14.
- Designed and ran multiple exercises to improve various rugby skills.
- Evaluated closely individual progress to optimally counsel the coach.