

# Michael Yang Data Scientist

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Self-motivated individual with excellent mathematical and statistical ability and strong teamwork skills

## SKILLS

### Language:

Python, SQL, Git

### Data Science Toolbox:

Hadoop, Spark, AWS, TensorFlow, PyTorch, Scikit-Learn, PyCharm, Jupyter, NumPy, Pandas, Matplotlib, Django

### Database:

PostgreSQL, Cassandra

### Artificial Intelligence:

Machine Learning, Deep Learning, Unsupervised Learning, Transfer Learning, Natural Language Processing

## PROJECTS

### Cryptocurrency Real-Time Prediction Model

Spring 2019

Conducted time series analysis and developed a deep learning (LSTM) coin return prediction model by integrating historical data with news sentiment analysis and social media status

### Dark Image Super Resolution Deep Learning Model

Fall 2018

Modified and combined two existing state-of-the-art deep neural networks in TensorFlow, and developed a new generative adversarial network (GAN) for dark image super resolution

### Loan Default Rate Prediction

### Classification Model

Fall 2018

Developed a machine learning binary classification model to predict loan default possibilities and visualized input data for exploratory data analysis to discover patterns and trends

## WORK HISTORY

### Amplify Data Scientist

May 2019 – Present

RBC Capital Markets, Toronto

- + Working closely with traders, salespeople, research analysts and Capital Market IT team, and using Design Thinking and Agile methods to build a data-driven AI-based product
- + Developing a deep learning NLP model to draw intelligent client (institutional investors) insights from CRM system call reports, news, and research reports to discover cross-sell opportunities and facilitate trades
- + Managing team objectives, conducting interviews with end-users, and developing pipelines for data processing and feature engineering

### Quantitative Research Intern

May 2017 – August 2017

China Merchants Securities, Shenzhen

- + Conducted time series analysis on financial sector stocks and developed a pairs trading model in Python with NumPy and Pandas and Matplotlib
- + Developed a multifactor stock selection model, and improved its performance by using Markowitz mean-variance optimization to determine optimal weights
- + Studied and researched day trading strategies on index futures
- + Assisted research analysts to develop a volatility trading strategy

## EDUCATION

### MSc. in Computer Science, Big Data

September 2018 - Present

Simon Fraser University, Burnaby, Canada

- + CGPA: 3.6
- + Expected Graduation: December 2019

### BCom. in Finance, Minor in Mathematics

September 2010 – May 2015

University of British Columbia, Sauder School of Business

- + CGPA: 3.8
- + Trek Excellence Scholarship for Outstanding Academic Performance

## SELF-DIRECTED LEARNING

**Coursera:** Applied Data Science with Python

**Actuarial Science (SOA):** Exam Probability, Exam Financial Mathematics

**Chartered Financial Analyst Institute:** CFA Level 2 Candidate