Yilun Zhang – Data Scientist

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SUMMARY OF QUALIFICATIONS

- 3 years experience in data analysis, machine learning and data visualization
- Superior capacity to quickly understand and apply new concepts developed through academic and work experience in different industries
- Extensive knowledge and experience in Excel, Matlab , Python (sklearn, pyspark, tensorflow, keras, seaborn, matplotlib, flask) , R (caret, ggplot2, dplyr, glmnet, h2o) and SAS
- Proficient in SQL languages and LaTeX; basic knowledge in Java and C++

PROFESSIONAL EXPERIENCE

August 2017 - Now

Data Scientist, *Manulife Lab of Forward Thinking (LOFT)*, Toronto, Canada.
- Innovation

May 2015 - Aug 2015

Data Scientist (Intern), *Athos*, Redwood City, USA.
- Assessed existing algorithm, then individually invented, implemented and tested a new algorithm to calculate the Athos Score (currently in production app)
- Implemented the first machine learning algorithm to predict lower body heart rate confidence
- Wrote Python and MySQL scripts to automate data cleaning, transfer and storage processes
- Created sensor signal and other data visualizations for problem detection and algorithm improvement

Sep 2014 - Dec 2014

Insight Analyst (Intern), *MD Financial Management*, Ottawa, Canada.
- Conducted statistical analysis on a product pre-launch survey; designed and implemented predictive models to identify future product purchasers and a visualization application for the survey data using R with Shiny
- Mined customer and survey databases to explore gender differences in investment behaviour

Jan 2014 - May 2014

Bioinformatics Data Analyst (Intern), *Princess Margaret Hospital*, Toronto, Canada.
- Implemented an experiment database using Python with SQLite3 which greatly improved efficiency for data standardization and sharing
- Automated experimental data storage to portable SQLite3 database using Python and Excel
- Applied mixed effect models and forecasting on a set of therapeutic experiment data using R; wrote a detailed statistical report in LaTeX

Feb 2013 - Aug 2013

Business Research Assistant (Intern), *Institute of System Science, NUS*, Singapore.
- Analyzed customer survey data using SPSS, R and Excel and produced visualization plots for presentation and final report to clients
- Mined Singapore's transportation data for commuters' travel pattern analysis

EDUCATION

Sep 2016 - Aug 2017

Master of Mathematics, Statistics, *University of Waterloo*, Waterloo, Canada.
- Research: detail review of sentiment analysis literature; implemented semi-supervised machine learning method to classify the sentiment of survey final comments

Sep 2011 - Apr 2016

Bachelor of Mathematics, Statistics and Computational Mathematics Co-op, *University of Waterloo*, Waterloo, Canada.
- Research: usage of interaction terms in Poisson regression models with particular attention to potential misconceptions within the sociology literature; conducted simulation study to illustrate proper usage of interaction terms in Poisson models in R

Sep 2014 - Aug 2015

Coursera & **edX**, *Online Courses*, Remote.
- Data Science Specialization | Machine Learning | Model Thinking | Data Visualization (Coursera)
- Introduction to Big Data with Apache Spark | Scalable Machine Learning (edX)

OTHER EXPERIENCE

Nov 2017

Presented Research at Vector Institute Endless Summer School #2, *Toronto, Canada.*

Apr 2017 - May 2017

Top 10%, Team Leader, Int'l Data Mining Cup 2017 Representing UW, *Remote.*

May 2016

Top Writer 2016 on Quora (I write about statistics, data science, etc.), *Quora.*

Aug 2015

1st Place, 6sense Data Hack, *6sense*, San Francisco, USA.

Feb 2015

1st Place, Capital One Data Mining Cup, *University of Waterloo*, Waterloo, Canada.