

Ningchuan Wang

37 Cezanne Trail, Thornhill, L4J 9B2

Email: ningchuanwang@gmail.com Cell: 647 880 6665

Summary of Qualification

- 5+ years of experience with optimization developed through academic and work projects.
- Excellent analytical, research, and problem-solving skills.
- Demonstrated ability to work as an individual player or a team player.
- Developed strong communication and presentation skills through working as a teaching assistant in University of Waterloo.
- Proven written skills developed through writing publications.

Professional Experience

- Optimization Analyst, Mevotech LP, February 2016 - Present.
 - Made significant contribution for the warehouse layout design.
 - Generated and maintained the KPI of inventory level for all warehouses by Excel Macros.
 - Made daily Back Order Reports for satellite warehouses. Figured out reasons and provided solutions of back orders for Supply Chain Department.
 - Forecast satellite warehouses sales by historical sales data. Replenished satellite warehouses weekly. Achieved the fill rate above 90%.
 - Made stock taking plans to maintain the inventory accuracy. Investigated the root causes of inventory discrepancies. Made 100% inventory accuracy for all seasonal audits.
- Research Analyst, University of Waterloo, September 2012 - 2015.
 - Transferred industry problems into mathematical models to find the optimal values.
 - Encoded and tested the mathematical model using Matlab in order to obtain numerical data.
 - Analyzed and compared the numerical data to forecast the trend.
 - Gave presentations using PowerPoint in seminars and conference at University of Waterloo and the Fields Institute, respectively.
 - Published “Eigenvalue, Quadratic Programming and Semidefinite Programming Bounds for a Cut Minimization Problem”.

Certificate

- Certificate of Machine Learning authorized by Stanford University and offered through coursera.

Major Course Projects:

1. Applied Gradient Decent Algorithm to linear and logistic models.
2. Encoded back propagation algorithm to neural networks to recognize handwritings.

3. Combined Gaussian Kernel with Support Vector Machines to build spam email system.
4. Experienced K-means algorithm to solve multi-classification.
5. Used collaborative filtering to build recommender systems.
6. Adjusted parameters of machine learning models to balance under-fitting and over-fitting issues.

Education

- **Master of Mathematics, Combinatorics & Optimization**, University of Waterloo, September 2012 - August 2014. Supervised by **Henry Wolkowicz**.
- **Honours Bachelor of Mathematics (with Distinction)**, Double Majors of Pure Mathematics and Combinatorics & Optimization, University of Waterloo, September 2008 - December 2011.

Programming Skills

- Proficient in Matlab, Python, SQL, R programming.
- Exceptional computer skills (Excel, Access, Word, PowerPoint). Strong ability to debug VBA and other programming language codes.

Activities and Interests

- Excellent 10k runner. I have been writing reviews of various running shoes to share with Thornhill Woods communities.
- Four Marathons finisher. Personal Best: 3 hours 50 minutes.
- Soccer.