

WILLIAM KONG

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Summary

- » Excellent understanding of financial concepts and theory
- » Comfortable and familiar with mathematical rigour and computational mathematics
- » Solid understanding of statistics including time series models
- » Strong programming and database skills
- » Able to work well individually or collaboratively in a team
- » Adept at multitasking and managing multiple concurrent projects

Programming Languages

- » Natively spoken R and Haskell
- » Experience with Matlab, LaTeX, SQL, VBA, and Python
- » Dabbled in C/C++, Git, and Scheme (Lisp)

Work Experience

Risk Modeling Analyst

September 2013 – December 2013

TD Bank Financial Group, Toronto ON

- » Validated and audited credit risk models using SAS and R
- » Developed custom benchmark models and numerical algorithms to test the validity of Basel II and Basel III risk-metrics using time series analysis and R
- » Designed multiple SAS queries to perform aggregate data and statistical analysis

Enterprise Risk Management Intern

January 2013 – April 2013

TD Bank Financial Group, Toronto ON

- » Lead developer of an interactive business intelligence dashboard, programmed in SQL and Tableau
- » Developed VBA macros to optimize several periodic risk reports by up to 61% and 99
- » Programmed R scripts to validate and transform monthly data used in TD's front end risk metrics
- » Designed multiple SQL queries to perform data regression and variance analysis

Defined Benefits Pension Analyst

April 2012 – August 2012

Morneau Shepell, Toronto ON

- » Improved existing spreadsheets using VBA by up to 40% in time efficiency
- » Calculated and analyzed actuarial valuations of pension figures for 4 teams spanning 8 companies
- » Independently completed special calculations and year-end annual reporting projects
- » Performed data validations on Morneau Shepell's internal databases to ensure client data integrity

Education

Candidate for Bachelor of Mathematics

September 2010 - December 2015

Major GPA : 3.85, Major Average: 88.13%

University of Waterloo, Waterloo ON

» Professional Risk Management Program

September 2010 - Present

» Mathematical Finance Program, Statistics Minor

May 2011 - Present

Relevant Courses: Forecasting, Differential Equations, Measure Theory, Advanced Optimization, Numerical Methods for Finance, Mathematical Models for Finance, Data Analysis (Online)

Professional Certifications: Passed two Society of Actuaries exams (P, FM)

Independent Projects

Project Euler Competitor

January 2013 - Present

» Actively competing in an international mathematics and computer science problem repository

» Ranked in the top 10% using the programming language *Haskell*

Data Mining Algorithm

July 2012

» Programmed a data miner in *VBA* to mine pension valuation rates from the Bank of Canada

Vanilla Options Simulator

November 2011

» Programmed an options and stock simulator in *Python* using the Black-Scholes model and Monte Carlo methods

Awards & Scholarships

» Top Quartile Participant of the Bloomberg Assessment Test (BAT)

2013

» Queen Elizabeth II Aiming for the Top Scholarship

2013, 2012, 2011, 2010

» Waterloo President's Scholarship

2010

Activities & Interests

President, UW Mathematical Finance Student Association

2014

VP of Finance, UW Mathematical Finance Student Association

2013 - 2014

Senior Member, University of Waterloo's Tae Kwon Do Club

2010 - Present