

SKILLS SUMMARY

Proficient PYTHON · Excel · Access · written and verbal communication · analytical and problem-solving skills
Familiar JavaScript · HTML/CSS · Go · L^AT_EX · Jupyter Notebooks · R · NumPy · pandas
OpenCV · OpenOffice · Linux · Racket(Lisp) · PostgreSQL · Prolog · JAVA · C/C++

EDUCATION

Honours BSc 2018-2021 University of Ottawa
GPA: 9.77/10 · *Computer Science* · Extended French Stream
Honours Project : Puzzle Boon - Jigsaw Puzzle Assist
Intro to Data Science · Intro to Artificial Intelligence · Cryptography · Databases I ·
Data Structures & Algorithms · Design of Secure Computer Systems · Discrete Structures ·
Programming Paradigms · Design & Analysis of Algorithms · Intro to Software Engineering ·
Advanced Programming Concepts with C++ · Programming Language Concepts

Honours BMath 1996-2001 University of Waterloo
Co-op · *Actuarial Science*
Calculus I, II, & III · Linear Algebra I & II · Probability · Statistics · Applied Probability ·
Applied Linear Models · Statistical Theory and Methods · Stochastic Processes · Forecasting ·
Linear Optimization · Intro to Macroeconomics · Intro to Microeconomics · Mathematics of
Finance · Actuarial Mathematics · Life Contingencies I

SELECTED WORK EXPERIENCE

CBSA May 2019–Feb 2020 FSWEF, Canada Border Services Agency — Ottawa
Reviewed existing literature on x-ray object detection and summarized to laypeople, implemented a fast.ai deep learning model for an x-ray object detection proof of concept and worked with my team on validating data for a blockchain proof of concept.

CAS Jun 2018–Feb 2019 FSWEF, Courts Administration Service — Ottawa
Created a web tool using JavaScript and jQuery to allow self-appointed litigants to provide the information required to generate Federal Court forms in pdf format. Also assisted with determining the software currently in use in Windows 7 to aid in the transition to Windows 10.

Sole Proprietor Jul 2003–Dec 2016 Custom Database Application Developer — Toronto / Hamilton
Produced custom applications to support third party administration services for a non-profit group insurance trust, to provide donations management functionality for a not-for-profit organization, and to track study participants in a longitudinal childhood autism study. Provided prompt, friendly responses to client requests for additional functionality or assistance with the Microsoft Access database applications. Demonstrated collaborative problem-solving approach by working with my clients to determine the best strategy to address any data management requirement that arose.

Mercer Oct 2005–Dec 2009 Senior Associate, Mercer Human Resource Consulting — Toronto
Managed the preparation of actuarial valuations for Canadian, US, and International accounting purposes. Canadian contact for Mercer's proprietary post-retirement valuation system. Prepared an *Excel Olympics* training exercise for my team members to encourage hands-on learning. Independently researched accounting guidelines for sick leave benefit liabilities to develop an actuarial valuation tool for this benefit type. Involved in the user acceptance testing for a new valuation data management system.

OTHER INFORMATION

Awards Summa Cum Laude · Cognos Prize (top 4th year CS project) · 2018 – 2021 Dean's Honour List
Languages ENGLISH · Native proficiency FRENCH · Upper-intermediate proficiency
Interests Home Improvement (DIY) · Science fiction · Cooking and delicious food