BRANDON TOUSHAN

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PROFILE SUMMARY

Driven, people-centric, AI & analytics practitioner, leader, and product owner with expertise in capital markets, alternative investments and humanitarian operations. Demonstrated problem solver that excels at driving data-driven innovation in highly competitive, fast-paced environments. Particularly skilled at deep learning, computer vision, and remote sensing and an expert at bridging the gap between cutting-edge research and real-world application.

SKILL SUMMARY

- Big-picture strategic thinker, organizational influencer and data storyteller
- Full stack development skillset – python, r, js, html/css, matlab, sql/nosql, spark, docker, aws/azure
- Robust AI and analytics toolkit – pandas, numpy, scipy, scikit-learn, tensorflow, keras, tidyverse, hadoop,
- Extensive dataviz and ui/ux design expertise – d3, chart.js, bokeh, matplotlib, ggplot2, plotly, seaborn, tableau

EDUCATION

Master of Management Analytics (MMA), Smith School of Business, Queen's University, Kingston, ON **2020 – Present**
- GPA: **3.90** (In Progress)
- Coursework included topics on machine learning, deep learning, computer vision, analytical decision making, big data analytics, predictive modelling, and quantitative finance, operations and strategy

Bachelor of Science; Physics and Mathematics, Queen's University, Kingston, ON **2015 – 2019**
- Recipient of the *Gordon Canning Award in Mathematics,* 2019
- Coursework included topics on advanced calculus, linear and differential algebra, probability theory, statistics, real and complex analysis, field theory, computational methods, and modern and classical physics

PROFESSIONAL EXPERIENCE

Software Engineer; Backend & Data Viz, Harvard Humanitarian Initiative, Cambridge, MA, US **Jan 2020 – Present**
- Identified an opportunity to greatly expand upon the visualization capabilities of the KoBo Toolbox platform, improving the quality of the millions of papers, publications and reports that are created using KoBo every year
- Pitched, developed and led a complete overhaul of KoBo's existing API, including considerable improvement to the depth, breadth and quality of the UI/UX, introduction of export as .svg functionality and a complete front-end overhaul from chart.js to d3.js based visualization
- Currently working with many of KoBo's biggest users including the UNHCR, the World Bank and the IFRC on needs determination, bespoke solution development and organizational-level implementation of the KoBo platform

Management Consultant, Smith Business Consulting (SBC), Kingston, ON **May 2020 – Present**
- Involved in several outreach projects advising local organizations on their post-pandemic operations and strategy
- Currently leading a team of five [5] developing a sustainable eCommerce strategy for a hyper-local retail business

Data Scientist, Queen's University Alternative Asset Fund (QUAAF), Toronto, ON **Jun 2020 – Present**
- Responsible for laying down the groundwork for a quantitative investment methodology as the fund's first DS
- Currently developing a series of machine learning based algorithms and predictive models designed to inform, enhance and augment the investment decision making process behind the thematic and global macro portfolios

Full Stack Web Developer, Freelance, Kingston, ON **2019 – 2020**
- Helped clients grow their personal brands, improve their advertising metrics and drive sales and revenue growth across their organizations via the development and introduction of customized web solutions
- Worked extensively to identify and reach out to potential clients, determine personal needs, close sales and develop individually tailored solutions, largely using HTML/CSS, JS & Bootstrap

Program Lead; Firefly Therapy Services, KidsAbility Centre for Child Development, Waterloo, ON **2017 – 2018**
- Oversaw the development, and successful rollout of, KidsAbility's most successful outreach and therapy programming to date as the lead of an interdisciplinary team of ten [10]