

# BRANDON TOUSHAN

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<https://github.com/BrandonToushan> | <https://brandontoushan.github.io/>

## PROFILE SUMMARY

Driven, people-centric, data scientist, software engineer, and product owner with expertise in capital markets, alternative investments and AI-based technologies. Particularly skilled at leading teams, driving innovation and creating value via the introduction of data-driven methodologies and machine and deep learning techniques

## SKILL SUMMARY

- Big-picture strategic thinker, organizational influencer and an empathetic 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**, Smith School of Business, Queen's University, Kingston, ON **2020 – Present**

- GPA: **3.86** (In Progress)
- Coursework included topics on machine learning, deep learning, computer vision, analytical decision making, big data analytics, predictive modelling, quantitative finance, entrepreneurship, operations and strategy

**Bachelor of Science; Honours 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**

- Pitched, developed and led a complete overhaul of KoBo Toolbox's existing API, including considerable improvement to the quality of the UI/UX, introduction of new export .svg functionality and a complete front-end overhaul, enhancing the quality of the millions of reports, papers and publications created with KoBo every year
- 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

**Data Scientist**, Queen's University Alternative Asset Fund (QUAAF), Toronto, ON **Jun 2020 – Present**

- Responsible for developing and instituting the fund's first quantitative and quantamental investment strategies
- Currently responsible for over \$100K AUM invested via a combination of ML and financial engineering techniques

**Management Consultant**, Smith Business Consulting (SBC), Kingston, ON **May 2020 – Present**

- Involved in several projects advising local organizations on post-pandemic strategy, finance and eCommerce ops
- Currently managing a team of five [5] developing a sustainable growth and eCommerce strategy for a fast-growing, early-stage retail startup with over \$800K in yearly revenue

**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 introduction and development 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]