



Toronto, Canada

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Summary.

Data lead driven by solving business problems with intelligent software. 3+ years of leading remote & local teams to solve problems across multiple verticals, specializing in exploratory data analysis, machine learning, blockchain research, and serverless architecture. Big fan of fractals, (quantitative) finance, functional programming, & cats.

DATA

Python (NumPy, Scikit-Learn, Pandas, Matplotlib, Seaborn, Keras, TensorFlow, Jupyter, PyTorch), R (tidyr, dplyr, ggplot2), Julia (IJulia, GladFly.jl), Matlab, Big Data (PySpark, Hadoop, Redis, ETL), SQL (PostgreSQL, MySQL, CloudSQL), NoSQL (MongoDB, DynamoDB, DataStore)

DEPLOYMENT

Google Cloud Platform (Compute, Cloud Functions, Cloud Run, PubSub, BigQuery), Amazon Web Services (EC2, Aurora, Redshift, Lambda, S3), Firebase (Functions, Firestore), Kubernetes (Docker, Shopify, Wordpress), Linux (Debian, Ubuntu, NixOS), Vagrant, CI/CD (TDD, Jenkins, CircleCI)

DEVELOPMENT

Python (Django, Flask, Requests, Coconut, Hy), TypeScript (NodeJS, Axios, Express, Lodash, Async.js, Request, PM2, Vue, REST/WebSocket API), Haskell (GHC, Stack), Shell (Bash, Zsh), CSS (Sass, Less), Git, HTML, Clojure (Aleph, Core.async), LaTeX, Markdown, Microsoft Excel (VBA), Vimscript, Elisp

Experience.

Lake Finance Toronto, CA

FOUNDER & CTO May 2018 - Nov. 2019

Co-founded a fintech startup with a mandate to engineer a practical set of financial tools for decentralized currencies; scaled to 11+ team and a \$1.6M USD valuation through bootstrapping, open-source grants and consulting.

- Graduated from University of Toronto's inaugural Creative Destruction Lab (CDL) Blockchain-AI (BcAI) 18/19 incubator, raising \$100K at 6%.
- · Launched invite-only beta (\$120K over 200 users) of Lake Wealth, which provided Al-driven cryptocurrency portfolios via an asynchronous set of Google Cloud Compute, Cloud Run, Datastore, CloudSQL & other microservices, to provide passive non-custodial investing.
- · Wrote Hydra AI; a proprietary portfolio selection engine in Python 3 that searches via price momenta & genetic algorithms to hunt for alpha in extreme volatility (black swan) events, converging in multi-threaded $\mathcal{O}(nlogn)$, benchmarked with paper trades and live capital.
- · Architected Lake Trade, an open source fault-tolerant Decentralized Exchange (dEX) allowing Ethereum users to trade ERC-20 / ERC-721 assets using the 0x V2 Protocol. Provided at cost & 0 fees for the Open-source community; raised \$100K grant from 0x Team to continue development in the blockchain and DeFi space.

Juniper Park \TBWA Toronto, CA

STRATEGIC DATA SCIENTIST Nov. 2016 - Apr. 2018

Led the Toronto division of the global TBWA Digital Arts Network (DAN) and Apple's Media Arts Lab (MAL) by providing multi-platform analytics, end-to-end data solutions, & bespoke measurement strategies.

- Built highly-available & scalable data pipelines across 3 zones in the TBWA Network to pitch & solve business problems for 10+ multinational clients, including NFL, Nissan, Pfizer & Apple.
- · Supervised a \$2M Adobe Marketing Cloud stack for Capital Group / American Funds, optimizing analytics via human analysis and machine learning to convert investors & advisors and grow their \$1.3 Trillion AUM.
- · Led a 3 person cross-departmental team in partnership with TBWA\CHIAT\DAY focused on discovering creative applications of AI, including experiments with artificially-generated creative content via TensorFlow Magenta.

JWT Mirum Toronto, CA

Jun. 2015 - Nov. 2016 DATA SCIENTIST

Developed end-to-end data strategies for clients like UNICEF, McCain, & Getty Images often requiring database architecture, executive KPI frameworks, predictive modeling via machine learning, insight visualization & reporting.

- Built bespoke data solutions for 11+ clients, including new-to-market products such as Adidas (Avenue A) & Campari (Baron Samedi), alongside mature offerings like Montreal Canadiens (Club 1909) and Pfizer (Centrum)
- · Worked within adhoc teams alongside strategic, creative & developer personnel to parse and pitch RFPs; acquiring 70% of businesses pitched on average.
- Analyzed social data across Twitter, Instagram, and Facebook for clients like TD, Walmart, & UNICEF using custom implementations of tools like like PostgreSQL, Tableau, tidyR, Twitter Firehose, and Facebook GraphQL.

Grip Ltd. Toronto, CA

Jul. 2014 - Jun. 2015 **DATA ANALYST**

Discovered, presented, and implemented data-centric strategies, with an objective to simplify objectives and tactics for local and international stakeholders.

- Tracked 400K+ anonymous users concurrently across digital properties by writing a custom implementation of Google Tag Manager, Omniture Analytics, & Google Analytics for the YUM Group (KFC, Pizza Hut, Taco Bell)
- Constructed 3-day automated KPI target generation system that tested & rendered a family of ARIMA models for Honda & Acura Canada using live sampled web data, for 12 internal stakeholders with unique KPI objectives.

VIVER MENON · CURRICULUM VITAE **DECEMBER 30, 2019** Education

Udacity Mountain View, USA

Nanodegree(s)

September. 2017 - May. 2018

Member of some of the inaugural classes of the Nanodegree Program, as curated by Udacity, in partnership with IBM Watson, Amazon Alexa, Github, AT&T, OpenAI, & Google.

Apr. 2018 Artificial Intelligence Nanodegree, sudokuAl, salesmanAl, nqueenAl, aslAl, pacmanAl, touristAl, faceAl, voiceAl

Apr. 2018 Web Development Nanodegree, linuxServer, itemCatalog, logAnalysis, movieTrailers, neighbourhoodMap

Sep. 2017 Deep Learning Nanodegree, introDL, cnnDL, rnnDL, lstmDL, qLearningDL, ganDL

Sauder School of Business - University of British Columbia

Vancouver, CA

B. Commerce, Double Major in Finance & Marketing with a Minor in Economics

September. 2010 - May. 2014

Graduated May '14 with a double specialization and minor with emphasis on financial engineering, marketing behavior, and multi-fractal analysis.

Research_

Hydra AI: The Evolutionary Diversification Mechanism

Toronto, CA

AUTHOR

May 2018

A proposed solution to the Offline Cardinality Constrained Multi Period Selection Problem, as described via a patent-pending multi-agent adversarial solution that merges evolutionary strategies with probabilistic AI.

TaaS as a Service: A Monte Carlo Simulation

Vancouver, CA

AUTHOR

Jun. 2014

A simple simulation for Hootsuite to show the capabilities of the Monte Carlo model, as applied to traditional Software-as-a-Service metrics like LTV, CAC, MRR, & Churn, using an firm and a a programmatic Monte Carlo simulation for varying business conditions

Bitcoin Pricing & Volatility: A Multifractal Analysis

Vancouver, CA

AUTHOR

Oct. 2013

Explored if cryptocurrencies exhibit fractal properties like over-dispersion, long memory and self-similarity, in partnership with the UBC Finance Department.

Certifications

BUSINESS

Jun. 2018 Artificial Intelligence: Implications for Business Strategy, MIT Sloan Executive Education	Cambridge, USA
Nov. 2013 Hootsuite Professional, Hootsuite	Vancouver, CA
Sep. 2013 Canadian Securities Course (CSC). Canadian Securities Institute	Toronto CA

TECHNOLOGY

Aug. 2019 Solutions Architect Associate, Amazon Web Services	Toronto, CA
Aug. 2019 Developer Associate, Amazon Web Services	Toronto, CA
Aug. 2019 SysOps Administrator Associate, Amazon Web Services	Toronto, CA
Nov. 2014 Web Analytics. Google	Toronto. CA