

Andre D'Souza

Quantitative Engineer, Athlete & Innovator

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OBJECTIVE

I thrive working with collaborative teams to solve problems. My talents include connecting obscure ideas, rapid learning, & concise communication. The expertise I leverage spans data science, cloud infra, optimization, cognitive bias, & finance. I also read a wide variety of books to learn from both successes or failures of others.

EDUCATION

2015 - B.A.Sc. in Engineering Science

2019 University of Toronto

- Majored in Engineering Finance & Optimization
- Specialized in Mathematics and Statistics
- 2019 Jeffrey Skoll Scholarship: \$10k
- 2019 Dean's List of Honor, Schulich Leader

WORK EXPERIENCE

2019 - Accenture

Now Cloud Engineering Consultant

- AWS & Azure Solution Architecture
- Designed cloud data pipelines for leading VOD platform, data monetization strategy
- Implemented DevOps & CI/CD frameworks, Terraform Enterprise for major Telecom Client
- Cost-optimization assessments for AWS & Azure

2018 RBC Capital Markets

Intern Securities Lending Analyst

- Quantitative and macroeconomic analysis for Global Securities Finance Trading Desk
- Automated \$900 billion+ lending portfolio analysis for client reporting and benchmarking
- Investment research and asset modelling

2017 IBM

Intern Technology Consultant, SAP

- Program Manager for Agile S/4HANA adoption

2016 GlaxoSmithKline

Intern Data Analyst, Business Intelligence

CERTIFICATIONS

- AWS Solutions Architect Associate (SAA-C02)
- Scaled Agile: SAFe 5 Agilist
- Microsoft Azure Cloud Fundamentals (AZ-900)
- Rotman School of Management: Engineering Business

PROJECTS

Data – Streams Pipeline: Kafka, Spark, CassandraDB, Presto

Python – Kaggle Challenges, Hockey Analytics, Trading Algos

AWS – CI/CD Pipeline, Dynamic ML, Terraform Modules

SQL – Financial Analytics, Attendance System

Machine Learning for Enterprise Access Control

- Applied recommendation engines to predict IAM permissions and classify anomalous access
- Anomaly detection for a major bank's IAM errors

PuckToEarnings.com

- Founded blog relating the NHL to value investing, quantitative finance and behavioral economics

Robo-Advisor Engineering Capstone

- Full-stack development of an investment web app

Portfolio Optimization Models

- Python algos for Stochastic, MVO, Black-Litterman
- Portfolio back-testing and sensitivity analysis

EXTRA-CURRICULAR

2017 - University of Toronto Sports Analytics

2019 Co-Founder

- Applying data science to generate sports insights
- Collaborated with national teams and industry

2015 - Varsity Engineering Hockey Team

2019 Captain

2015 - University of Toronto Aerospace Team

2018 CFO & Avionics Engineer

2017 - World Council on City Data

2018 Smart City Researcher

INTERESTS

Athletics – Hockey, Rock Climbing, Rugby, Tennis

Value Investing – Podcasts, books, personal portfolio

Psychology – Minimizing cognitive bias in decisions

Classical Piano – Royal Conservatory of Music Level 9

VOLUNTEER

2013 - ErinOak Kids

2020 Special Needs Children Assistant