Andre D'Souza

Quantitative Engineer, Athlete, & Innovator

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OBJECTIVE

I enjoy empowering data driven change to turn problems into upside opportunities. I am passionate about both data and collaboration. My talents include divergent thinking, concise communication, and rapid learning. The expertise I leverage spans data science, cloud computing, mathematical optimization, cognitive bias, and finance.

EDUCATION

2015 - 2019   **B.A.Sc. in Engineering Science**
University of Toronto
- Major in Mathematical Optimization Engineering
- Minor in Engineering Business & Entrepreneurship
- 2019 Skoll Scholarship: $10k; Dean's Honor List

WORK EXPERIENCE

2021 - Now   **Ritual**
Product Analytics Engineer (L4)
- Developed dbt data transformation models on Snowflake, powering growth & financial analytics
- Experimentation analysis for feature rollout
- Model R&D for in-app recommendation system
- Dashboarding development on Google Looker

2019 - 2021   **Accenture**
Cloud Engineering Consultant
- Designed cloud data pipelines for VOD platform
- Financial and supply optimization analytics
- Cost-optimization assessments for AWS & Azure

2018 - 2019   **RBC Ventures**
Cybersecurity Data Developer
- Created improved access control algorithm
- DB permissions analytics on user-role mapping

2018   **RBC Capital Markets**
Intern   **Quantitative Analyst**
- Trading analytics for Securities Lending Desk
- Developed lending analysis tool on $900B+ port.

2017   **IBM**
Intern   **Technology Consultant, SAP**
- S/4HANA Embedded Analytics deployment

2016   **GlaxoSmithKline**
Intern   **Data Analyst, Business Intelligence**

PROJECTS

Cloud Hosted Hockey Analytics
- Real-time win probability versus fan sentiment

Machine Learning for IAM
- 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 Web App
- Back-end development of an investment wizard

Portfolio Optimization Models
- Python portfolio optimization models using Stochastic, MVO & Black-Litterman
- Portfolio back-testing and sensitivity analysis

VOLUNTEER

2013 - Now   **ErinOak Kids**
Special Needs Children Assistant

EXTRA- CURRICULAR

2017 - 2019   **University of Toronto Sports Analytics**
Co-Founder
- Applying data science to generate sports insights
- Collaborated with national teams and industry

2015 - 2019   **Varsity Engineering Hockey Team**
Captain

2015 - 2018   **University of Toronto Aerospace Team**
CFO & Avionics Engineer

2017 - 2018   **World Council on City Data**
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