

David Scott

BUSINESS ANALYST · MACHINE LEARNING ENGINEER

Edmonton, Alberta, Canada

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Education

University of Alberta

Edmonton, Canada

M.Sc. IN COMPUTER PROCESS CONTROL ENGINEERING · GPA 3.8/4.0

Sep. 2017 - Dec. 2019

- Received Alexander Graham Bell Canada Graduate Scholarship – the highest level of scholarship for a Canadian Master's Scholar, 15 additional Awards relating to Research in Machine Learning, Leadership, and Mentorship.
- Co-founded and mentored 4 students in the Indigenous Engineering Students' Association and Indigenous Graduate Students' Association.
- Master's Thesis "Industrial Process Monitoring via Non-stationary PSFA Machine Learning Algorithm."

University of Alberta

Edmonton, Canada

B.Sc. IN CHEMICAL ENGINEERING, CO-OP PROGRAM · GPA 3.7/4.0

Sep. 2012 - Apr. 2017

- Awarded 1st Place for Capstone Design Project, 8 additional Awards relating to Communication, Writing Skill, and Leadership.

Summary

Driven M.Sc. Graduate with a passion for machine learning (ML), consulting, and entrepreneurship. Exceptional analytical and problem-solving skills. Proven expertise in conveying complex technical concepts into understandable mediums. Strong record of leadership; co-founding two Indigenous-focused societies. Keen interest in collaborating with diverse teams to solve fundamental problems concerning clients.

Experience

Entrepreneur First

Singapore

INCOMING FOUNDER IN RESIDENCE

Oct. 2019 - Current

- Selected as one of 50 co-founders from across the world to participate in Entrepreneur First's 7th Cohort in Singapore.
- Entrepreneur First is a deep-tech incubator where high-tech companies are built, backed by the founders of LinkedIn, DeepMind, and Paypal.

Tsinghua University

Beijing, China

MACHINE LEARNING RESEARCH ENGINEER - MASTER'S EXCHANGE

Feb. 2019 - Aug. 2019

- Developed a first-of-its-kind ML algorithm that monitors and detects faults during industrial process monitoring.
- Implemented algorithm with industrial processes (MATLAB, Python), identifying faults 20% faster and raising 35% less false alarms than other leading ML algorithms.

University of Alberta

Edmonton, Canada

INDUSTRIAL AUTOMATION & MACHINE LEARNING RESEARCH ENGINEER

Sep. 2018 - Feb. 2019

- Re-engineered Pump Fault Analysis Software (Python) by designing a UI for end-user to interact with software and distinguish faults.

Schlumberger Limited

Tulsa, USA

DATA ANALYTICS FIELD ENGINEER, INTERN

Jun. 2018 - Jul. 2018

- Developed ML application that ensured efficient operations by utilizing real-time vibration and GPS data to detect 10 drilling faults.
- Formulated and launched IoT program that connected microprocessors to satellites, improving IoT links and saving \$100,000 USD in lost time.

Canadian Natural Resources Limited

Calgary, Canada

DATA SCIENCE & CONTROLS ENGINEER, CO-OP STUDENT

May. 2016 - Dec. 2016

- Forecasted and modeled capital expenditures of 80 capital projects into models and graphs (R), delivering KPIs to senior management.

Hackathons and Data Science Competitions

2019 **1st Place**, UNSW Data Science Hackathon

Sydney, Australia

2019 **1st Place**, Tsinghua University and UNSW Data Science Hackathon

Beijing, China

2019 **1st Place**, Tsinghua University ARM Internet of Things (IoT) Hackathon

Beijing, China

Unique Experiences

Rapid Fire Controller e-Commerce Business

Edmonton, Canada

April 2009

- At 13, I started my first e-Commerce business utilizing electrical engineering principles to modify hardware on Xbox 360 controllers, offering players a competitive advantage over their peers. Utilizing eBay to sell my products, I grossed over \$5,000 dollars USD in sales during one year.