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Technical Skills

PROGRAMMING LANGUAGES

- · R, Python, SQL
- HTML, CSS, Javascript

ANALYTICAL PROFICIENCIES

- Highly proficient in applied statistical modeling and machine learning algorithms
- Highly proficient in data wrangling using the R Tidyverse
- Advanced R Shiny developer and R package developer

COMMONLY USED TOOLS

· Git, Docker, Unix

Recent Experience _____

Senior Data Scientist Toronto, Canada

LKS-CHART - St. MICHAEL'S HOSPITAL

January 2020 - Present

- Released an internal R package for automating common production data science tasks.
- Deployed 3 web applications, including a COVID-19 dashboard to help hospital leadership members manage patient flow and resource allocation.
- Led team journal club and 'three tips' sessions for disseminating useful information amongst the team.

Junior Data Scientist Toronto, Canada

LKS-CHART - St. MICHAEL'S HOSPITAL

September 2018 - January 2020

- · Deployed a web application with fully-integrated optimization modeling used at the St. Michael's Hospital Emergency Department for daily nurse assignment. Reduced task time from 2.5 hours daily to 15 minutes, and improved KPI metric by 5 times the
- Developed an automated algorithm that sifts through large amounts of data to identify patients eligible for targeted antimicrobial conversion therapy. Enabled new clinical workflows that were not previously viable, allowing for more efficient care and better patient outcomes.

Statistician Toronto, Canada

APPLIED HEALTH RESEARCH CENTRE - ST. MICHAEL'S HOSPITAL

July 2016 - September 2018

 Conducted statistical analysis and consulted on the design of international, multi-center clinical trials, with notable publications in the New England Journal of Medicine and Ophthalmology.

Statistical Analyst Hamilton, Canada

St. Joseph's Healthcare Hamilton

June 2015 - July 2016

Toronto, Canada

· Lead statistical analyst of a large observational cohort, with notable publications in The Journal of Allergy and Clinical Immunology and The European Respiratory Journal.

Education

SEPTEMBER 2020

deeplearning.ai Coursera

DEEP LEARNING SPECIALIZATION

University of Toronto Toronto, Canada

MSc, BIOSTATISTICS (GPA 4.0/4.0) 2015 **University of Toronto**

HBSc, with High Distinction (GPA 3.8/4.0) 2014

DAVID DAI · CURRICULUM VITAE