ianwaudby-smith

student, statistician, developer

about

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programming

R, Python, SQL
JavaScript, Ruby on Rails

technologies

Linux, git, ggplot2
Hadoop, LaTeX

education

since 2013	**Candidate for Honours Bachelor of Mathematics**	University of Waterloo

Pure Mathematics & Statistics (Co-op)
Major average: 91%, cumulative average: 90%

experience

05/16 - now   **Research Assistant,** UW Health Data Science Lab   Waterloo, ON
- Performed sentiment analysis on millions of electronic medical records.
- Used logistic regression and survival models for inference/prediction.
- Wrote a paper summarizing methods and results (submitted).

04/17 - 08/17   **Research Assistant,** University of Waterloo   Waterloo, ON
- Wrote an R package to perform robust statistical tests (on CRAN).
- Used parallel computing to reduce simulation time by more than 95%.
- Proved (asymptotic) relationships between statistical tests of interest.

01/16 - 04/16   **Analyst - Strategic Analytics,** Cancer Care Ontario   Toronto, ON
- Developed a model to predict prevalence of chronic kidney disease.
- Wrote algorithms to quantify similarity between cancer treatments.

05/15 - 08/15   **R&D Developer,** DST Systems   Toronto, ON
- Wrote a MapReduce program to perform fuzzy string comparison.
- Wrote an XML to CSV for use with Hadoop's Distributed File System.

09/14 - 12/14   **Software Developer,** PureFacts Financial Solutions   Toronto, ON
- Implemented an error handling pattern for fail-safe API calls.

presentations & projects

06/16   **Statistical Society of Canada conference**   Brock University

Multi-state models for chronic kidney disease prevalence projections in Ontario (oral & poster presentations).

04/16   **Cancer Care Ontario Research Day**   Toronto, ON

Sequence analysis of patient-care pathways: A study of colorectal cancer in Ontario (poster presentation).

09/15   **HackTheNorth**   University of Waterloo
- Visualized the sentiment of tweets referring to Canadian political parties.
- Retrieved tweets using the python library, tweepy.

02/15   **DeltaHacks**   McMaster University
- Made Wikipedia accessible via SMS using Twilio and the Wikipedia API.