ianwaudby-smith

student, statistician, developer

about

iwaudbysmith@gmail.com
waudbysmith.com
github.com/wannabesmith

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
Joint 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/prediciton.
- 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.
- Used parallel computing to reduce simulation time by 95.6%.
- Contributed to a paper by proving properties about statistical tests.

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.