

LANGUAGES

- C++, Python, Java, JavaScript, Scala, C#, Haskell, Scheme, Octave/MATLAB

EXPERIENCE

Yahoo! | Java, Python, Hadoop, Pig

Jan. 2018 – April 2018

- Trained and integrated a sports document classifier using Apache Spark ML to improve the quality of Yahoo's Major League Baseball page
- Implemented streaming algorithms in Python to extract and process terabytes of data in an online manner
- Experimented with instance weighting, frequency thresholding, and regularization to boost model accuracy
- Created unit tests and functional tests using Mockito

Sensibill | NodeJS, MongoDB, AngularJS

May 2017 – Aug. 2017

- Designed and developed RESTful API services to support a receipt capture app for mobile banking
- Adapted the existing machine learning framework to preprocess e-receipts sent to a user's email
- Created unit tests using Mocha

Ottawa Hospital Research Institute | Python

Sept. 2015 – Aug. 2017

- Created scripts to retrieve and process data to study the actions and effects of malicious scientific journals
- Published two highly-accessed papers in *Nature* and *BioMed Central* (> 65 citations)
- Conducted research that directly led to illegitimate medical journal publishers being blacklisted

PROJECTS

Postura | C#, WPF (XAML)

- Built a desktop app that detects poor posture with the user's camera and prompts them to adjust themselves accordingly
- Integrated OpenCV and Microsoft Azure's FaceAPI to track changes in posture

Interval Trainer | JavaScript, jQuery

- Created a website for practicing musical interval recognition
- Added a heuristic to select the most useful training cases for the user based on their previous results

RESEARCH

- Explored the minimal state complexity of deterministic finite automata for a certain class of regular languages with Prof. Lila Kari

EDUCATION

University of Waterloo

- Bachelor of Computer Science (3B term); cumulative average: 92.9%, term average: 96.2%

EXTRACURRICULARS

Quizbowl

- Served as President (high school) and Vice President (university)
- Represented Canada at an international tournament with over 250 teams; placed in the top 21

Hackathons

- MHacks X, MSFT Hacks 3 and 4, UofT BioHacks