

Edward Hedi Lu

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Education

University of Waterloo

Sept. 2015 – May 2020

Honours Computer Science (BCS)

– 86.4% cumulative average, 1A and 2B Dean's Honours List

Work Experience

Yahoo! Inc.

May – Aug. 2017

Software Developer Intern

Sunnyvale, CA

- Worked on the NLP pipeline powering Newsroom, Sports and other Yahoo! products
- Improved article labelling precision by 6.2% by implementing a new embedding-based multi-label classification model using Java and DeepLearning4Java
- Optimized the model for use in production by reducing nearest neighbor search time by 95% using locality sensitive hashing
- Designed and prototyped a dynamic embedding-based content recommendation system
- Refactored model code using TensorFlow for training on GPU machines

Ontario Institute for Cancer Research

May – Aug. 2016

Frontend Developer Intern

Toronto, ON

- Worked on a platform that allows researchers to build custom surveys
- Designed and implemented responsive UI components such as modal dialogs, menus, forms and progress indicators using JavaScript, React, Redux and CSS
- Tested and improved site accessibility and cross-browser compatibility

Projects

Q-Trader – github.com/edwardhdlu/q-trader

Sept. 2017

- Built an agent that predicts profitable short-term trading actions from stock price data
- Implemented Q-learning in a trading environment using Python and Keras
- Experimented with various state representations and reward functions to optimize profit

Digit Identifier – github.com/edwardhdlu/digit-identifier

Jan. 2017

- Built a web app that identifies numbers from photos
- Trained a CNN using TensorFlow that achieves 85% test accuracy on the Street View House Numbers dataset
- Extended TensorFlow by implementing new activation functions and gradients using C++
- Built a Flask server to run the model on image data sent from a jQuery interface

Skills

Languages – Python, Java, C++, JavaScript

Frameworks – TensorFlow, DL4J, Keras, jQuery, React, Flask