

Edward Hedi Lu

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Education

University of Waterloo

Sep. 2015 – May 2020

Honours Computer Science (BCS) – 3.82 GPA

Experience

Apple Inc.

Cupertino, CA

Software Engineering Intern – Siri Natural Language Platform

Jan. – Apr. 2019

– Developed an upcoming feature to improve Siri's understanding ability using Python, C++, Java and TensorFlow

NVIDIA Corporation

Santa Clara, CA

Deep Learning Software Intern – AI Algorithms Research

Sep. – Dec. 2018

– Implemented the WaveNet speech synthesis model using Python and TensorFlow as part of OpenSeq2Seq, an open source toolkit for mixed precision training on multiple GPUs

– Experimented with applying deep convolutional networks to spoken keyword recognition, attaining 97% test accuracy on the Google Speech Commands dataset

Yahoo! Inc.

Sunnyvale, CA

Software Engineering Intern – Content and User Understanding

Jan. – Apr. 2018

– Trained a latent Dirichlet allocation model to predict article-comment relevance using Python and Gensim

– Extended the Yahoo! News comment pipeline to use relevance as a ranking feature using Java, Scala and Spark

Yahoo! Inc.

Sunnyvale, CA

Software Engineering Intern – Content and User Understanding

May – Aug. 2017

– Deployed a novel embedding-based article classification model for Yahoo! News and Newsroom using Java and Deeplearning4j, improving precision by 6%

– Reduced model inference runtime in production by 95% by implementing locality sensitive hashing

Ontario Institute for Cancer Research

Toronto, ON

Frontend Developer Intern – Web Development

May – Aug. 2016

– Developed responsive and reusable UI components using JavaScript, React and Redux

– Tested and improved site accessibility and compatibility across browsers and devices

Projects

Undergraduate Research Assistantship

May – Aug. 2019

– Working with Prof. Jimmy Lin on experiments and tools for information retrieval and question answering

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

Sep. 2017

– Built a reinforcement learning agent that predicts profitable short-term trading actions from stock price data using Python and Keras

Skills

Languages – Python, C++, Java, JavaScript, Scala

Frameworks – TensorFlow, Keras, PyTorch, Flask, Spark