

### **EDUCATION**

# University of Waterloo BMath, Computer Science | 2016 - Present

■ 91% Academic Average

### **SKILLS**

**Languages** Python • C/C++ • Matlab • Java/Scala • R • JavaScript • OCaml

**Technologies** NumPy/PyTorch/TensorFlow • Linux • Node.js • Git • LaTeX

### Coursework

- Computational Vision, Intro to Machine Learning
- Operating Systems
- Statistics, Calculus, Linear Algebra, Analysis & Measure Theory

### **EXPERIENCE**

### Assistant Researcher Huawei Noah's Ark Lab

Sep 2019 - Dec 2019 | Montreal

- Applied research in automatic speech recognition (ASR)
- Explored and evaluated techniques for speeding up deep learning models for use on mobile devices
  Resulting work accepted to ICASSP 2020: arxiv.org/abs/1911.03604
- Worked with product team to train models on internal datasets to prototype Chinese ASR systems
- Investigated techniques for robust and far-field speech recognition in university collaboration

# Undergrad Research Assistant University of Waterloo

May 2019 - Aug 2019 | Waterloo

- Worked part-time with Dr. Olga Vechtomova on the task of text simplification
- Implemented baseline methods and conducted a literature review, presented during weekly seminars

### **Research Student** National Research Council of Canada

Jan 2019 - April 2019 | Ottawa

- Worked with Dr. Yunli Wang (Multilingual Text Processing Group) on applying deep learning to NLP tasks (topic modelling & text style transfer)
- Performed a literature review for the task of text style transfer
- Implemented SOTA methods in PyTorch and summarized experimental results/observations in a technical report + talk

# Software Developer TradeRev

May 2018 - Aug 2018 | Toronto

- $\hbox{ Leveraged multi-threading and eager queries to speed up financial report generation (12 \ days \rightarrow 5 \ hours) }$
- Worked on refactoring components of a legacy financial system (Java) into microservices (Node.js)
- Performed production debugging/hotfixes for financial system seeing over \$2,000,000 in daily throughput

## PROJECTS & EXTRACURRICULARS

## **Text Editor** C++, ncurses

Vim-like modal text editor designed with RAII and extension in mind. Supports a limited, growing set of commands. We drew up the full UML before coding.

## Calculus TA University of Waterloo

Part-time tutor teaching assistant under the Faculty of Math to help students with Calculus I & II.