

EDUCATION University of Washington - *MS Computational Linguistics* 06/2018-05/2020 3.9/4
Rensselaer Polytechnic Institute - *BS Computer Science* 08/2011-05/2015 3.43/4

WORK EXPERIENCE

Program Manager 2-Microsoft Bing, Applied Science & Metrics 11/2017-
• Drove scaling and rearchitecture of offline metrics stack through new offline labeling tasks, novel query set sampling methods, and metric aggregation. Improved labeling taskskrippendorff's alpha by 2-3x. Pipeline scaled to \$7m/year across 16 markets on a with a decrease in label and query latency from months to minutes.
• Research and analyzed Bing Relevance performance for executive team across various verticals, languages, and metrics using language embeddings, scikit-learn, and NLTK.
• Built Family of MSMARCO Datasets and baselines including Question Answering, Language Generation and Passage Ranking garnering which collectively have been used by over 1000 Deep Learning Researchers. Baselines models built primarily in Pytorch and Tensorflow.

Program Manager 2-Microsoft Cloud + AI, Global Services C&E 05/2016-11/2017
• Designed, built and deployed Neural Machine Translation into software localization pipeline for entire division. Using the improved pipeline, renegotiated supplier contracts bringing 20% savings anualizing to \$1m/year savings.
• Optimized and expanded NLP system for customer feedback translation and categorization decreasing team effort by 80% using NLTK, Tensorflow, and scikit-learn.
• Drove end to end localization and internationalization for Azure and Visual Studio products including automation, bug triage, budgeting, vendor and release management.

Program Manager-Microsoft, Azure RemoteApp 05/2014-08/14 & 08/2015-05/2015
• Designed scalable multi cloud network architecture for cloud based Remote Desktop Service and drove large scale deployment to alpha customers and Microsoft.
• Productionalized service wind down and designed migratable solutions for existing customers.

NLP Researcher-Basis Technology 01/2014-05/2014
• Scaled multilingual Entity Resolution pipeline to decrease document analysis time, increase accuracy, and increase throughput while expanding language support from 2 to 6.
• Formalized data creation, data injections, retrieval, formatting and analysis pipeline using primarily Bash, Java, and Python.

Software Engineer-Cisco Systems 05/2013-08/2013
• Developed JavaScript tools for bug tracking and HTML5 based screenshotting to allow developers to receive feedback during betas and private previews.

Research

- TREC 2019 Deep Learning Track Coordinator-2019
- SIGIR AFIRM Instructor2019
- MS MARCO: A Human Generated MACHine Reading COMprehension Dataset-2018
- Experiments in Inferring Social Networks of Diffusion-2014
- Neural Network Based Retail Assistant With Minimal Training Data-2014