

Yulan Feng

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SUMMARY

Upcoming graduate with 2 years of experience as research engineer, looking for software engineer positions related to NLP.

EDUCATION

Carnegie Mellon University - School of Computer Science

Pittsburgh, PA

Master of Language Technologies | GPA 4.08/4.0

Aug. 2021

- Research Fellowship granted by the Language Technologies Institute and Department of Transportation

McGill University

Montreal, Canada

Bachelor of Arts and Science in Honours Cognitive Science, Minor in Statistics | GPA 3.87/4.0

Oct. 2017

- First Class Honours, Dean's Multidisciplinary Undergraduate Research List, Dean's Honour List

WORK EXPERIENCE

Dialogue Research Center, Carnegie Mellon University

Pittsburgh, PA

Research Assistant

Aug. 2019 - Aug. 2021

- Developed end-to-end transportation planning telephone dialog system with Python and Node.js, including ASR, NLU, NLG, and TTS modules, and using the RavenClaw framework in dialog management.
- Integrated Google Cloud Platform (GCP) APIs with Nexmo websockets and Flask framework to perform real-time transcription, and routing lookup. Deployed the system on both local server and Amazon Web Services (AWS).
- Designed the system tailored to the needs of senior citizens by collaborating with local hospitals and companies.

Nuance Communications Inc

Montreal, Canada

Research Engineer - Natural Language Understanding

Sept. 2017 - Aug. 2019

- Designed and implemented UIMA framework pipelines in Java to add new features, including multi-intent detection and confidence engines, to the current spoken language understanding engine.
- Combined traditional semantic parsing methods with new machine learning approaches, including Seq2Seq, Transformer, and BERT models, achieving relative error reduction rate up to 23%.
- Deployed machine learning models in production with TensorFlow, releasing the first machine learning engine.

PUBLICATIONS

Towards Automatic Route Description Unification In Spoken Dialog Systems

Yulan Feng, Alan W Black, Maxine Eskenazi

Under Review

“None of the Above”: Measure Uncertainty in Dialog Response Retrieval

Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao

ACL 2020

Let's do it "again": A First Computational Approach to Detecting Adverbial Presupposition Triggers

Andre Cianflone*, Yulan Feng*, Jad Kabbara*, Jackie Chi Kit Cheung

ACL 2018 Best Long Paper

* contributed equally

Capturing Pragmatic Knowledge in Article Usage Prediction using LSTMs

Jad Kabbara, Yulan Feng, and Jackie C.K. Cheung

COLING 2016

SKILLS

Programming Languages and Platforms: Python, Java, R, Javascript, LaTeX, Linux, UNIX

Software and Frameworks: Git, Maven, Apache UIMA, TensorFlow, Theano, PyTorch

Areas of Expertise: Natural Language Processing, Prosody, Dialog Systems, Speech Recognition