

DATE COMPILED Friday, October 1st, 2021

PROFESSIONAL **Redflag AI**, Berkeley, California USA
EXPERIENCE *NLP Lead*

July, 2020 – June, 2021

Designed and implemented several annotation tasks.
Implemented a heavy TensorFlow pipeline for fine-tuning BERT.
Implemented light TensorFlow pipelines for production use.

Insight Engines, San Francisco, California USA
NLP Engineer

September, 2016 – October, 2017

Prepared natural language input for Splunk.
Enabled the semantic parser to reason about negation and conjuncts more effectively.
Designed search schema to assist cybersecurity investigations.

IBM, Arlington, Virginia USA
NLP Engineer

July, 2015 – September, 2016

Authored a *wh-tracer* to assess the quality of question-answer pairs.
Enabled Watson Discovery Advisor to reason about numeric questions more effectively.
Extended the resources for evaluating Waton Discovery Advisor.

Brigham and Women's Hospital, Wellesley, Mass USA
Research Assistant

January, 2015 – July, 2015

Implemented a chart parser with well-formed substring table in Scala.
Implemented a negation detection algorithm in MTERMS.

Brandeis Lab for Linguistics and Computation, Waltham, Mass USA
Research Assistant

April, 2013 – May, 2014

Adjudicated corpora in ISO-Space working group.
Applied adjudicated corpora to disambiguating motion predicates.

Vioby, Boston, Mass USA
Natural Language Engineer

March, 2013

Authored a text classifier for matching queries with product descriptions.

Lexalytics, Amherst, Mass USA
Intern

October, 2012

Annotated data for a supervised learning task.

EDUCATION **Brandeis University**
 M.A., Computational Linguistics, *unfinished*, 2013–2014

The University of Massachusetts Amherst
 M.A., Linguistics, *unfinished*, 2012–2013
 B.A., Linguistics, *cum laude*, 2007–2011
 B.S., Biology, *cum laude*, 2007–2011

WORKSHOP
PROCEEDINGS 2016. Watson Discovery Advisor: Question-answering in an industrial setting. *NAACL HLT Workshop on Human-Computer Question Answering*.

PATENTS 2021. System and method for generating improved search queries from natural language questions.
 2019. Generation of a grammatically diverse test set for deep question answering systems.
 2018. Syntactic classification of natural language sentences with respect to a targeted element.
 2018. System and method for type-specific answer filtering for numeric questions.

OTHER
PUBLICATIONS 2019. Encoding and Processing Patient Allergy Information in EHRs. AHRQ Grant.
 2015. SemEval 2015 Task 8: SpaceEval. *Proceedings of the 9th International Workshop on Semantic Evaluation*.

SKILLS Unix/ Linux.
 Bash, Python, Scala.
 scikit-learn, TensorFlow.
 UIMA, DKPro.
 AWS.