Emma Bateman

emmalbateman@gmail.com (425) 638-9752 github.com/emmabateman

Relevant Skills:

- Python, R, JavaScript
- AWS, MongoDB
- NumPy, Scikit-learn, Pandas, Tensorflow
- Neural Networks, Support Vector Machines, genetic algorithms, Naive Bayes
- Document classification, information extraction, relation extraction, document summarization
- Word embedding, tokenization, part-of-speech tagging, parsing

Education:

Master of Science in Computational Linguistics Expected graduation date: June 2020
University of Washington, Seattle, WA
GPA: 3.70
Coursework:

- Collaborated on a team to build a multi-document summarization system
- Built a decision tree learning model for classifying documents
- Implemented parsing algorithms for context free and probabilistic context free grammars
- Built Hidden Markov Models for bigram and trigram part-of-speech tagging

Bachelor of Science in Computer Science May 2018
Minor: Creative Writing
University of Idaho, Moscow, ID
Honors Core Award
GPA: 3.77

Work Experience:

Research Assistant March 2020 – present
University of Washington, Seattle, WA

- Improving a user interface for linguists to help design machine-readable grammars
- Working with potentially noisy data mined from linguistics literature
- Modifying existing JavaScript and Python code to fix issues and expand functionality

Intern – Software Engineering June – September 2019
Collins Aerospace, Cedar Rapids, IA

- Worked on an Agile development team
- Designed components of a navigation software system

Projects and Research:

Application for Speech Visualization September 2017 – May 2018
University of Idaho, Moscow, ID

- Worked with the CMU Sphinx toolkit to analyze speech data
- Trained a language model on a corpus of scripted and spontaneous speech
- Performed phoneme-level speech recognition

"Belief horizons and interaction models of opinion dynamics" February 2017 – May 2018
University of Idaho, Moscow, ID

- Ran simulations with C++ and analyzed outputs using R
- Produced plots and graphs to visualize data
- Studied the evolution of opinions in groups from an interdisciplinary perspective