KAZUKI YABE

GitHub: kazzyabe

SKILLS

- Languages: C, C++, JavaScript, php, Python, Ruby

- Tools: GitHub, Linux command line tool, mySQL, selenium, NLTK, spaCy, TensorFlow

- Data Format: JSON, CoNLL, XML

- Other: HTML, CSS, Nodejs, Express, Okta, Japanese,

EXPERIENCE

Computational and Linguistics Analysis 545   Aug-Dec 2019
- Learnt sentence/word tokenization, machine learning, text processing using Linux commands

- Implemented Graph-based dependency parser using averaged perceptron

- Improved the parser by jointly training POS tagger and the parser

Computer Science 413 – Computational Linguistics   Sep-Dec 2017
- Learnt basic machine learning models, including linear models, IBM1,2,3, Hidden Markov Models, and neural net

- Implemented simple machine translation model throughout assignments

Linguistics 807 – Computational Linguistics   Jan-April 2017
- Experienced with nltk for many different purposes, such as part-of-speech tagging, making own corpora and its analysis, tree drawing, etc.

- Learned many aspects of natural language processing, such as sentiment analysis, speech generation, and machine translation, and read articles about neural machine translation for in-class presentation

- Used the sentiment analysis feature of Google Cloud Natural Language API for my final projects, and examined its accuracy and errors

EDUCATION

Indiana University Bloomington.   Sep 2019-Present
Major: Computational Linguistics
Master of Science
Simon Fraser University   Sep 2014-Sep 2018
Major: Computer Science and Linguistics
Bachelor of Science

PROJECTS

Jointly Trained POS Tagger and Dependency Parser
- Implemented Graph-based Dependency Parser using Averaged Perceptron

- Jointly trained POS tagger and dependency parser to solve error propagation problem in the pipping strategy

Maximum Matching algorithm
- Extracted vocabulary from Japanese Universal Dependency dataset, and implemented Japanese word tokenization using maximum matching algorithm.

WORK EXPERIENCE

Sierra Wireless, Software Test Engineer Coop   Jan 2018-Aug 2018

- Run automated tests for product-user interface using Python

Experimental Syntax Lab at Simon Fraser University   Oct 2016-Dec 2017
- Undergraduate Research Assistant

- Run experiments on a syntactic phenomenon "Japanese Null Object Constriction" using PsychoPy2

AWARDS AND ACKNOWLEDGEMENTS

International Academic Excellence Entrance Scholarship   Sep 2014, Jan 2016, Sep 2016,
                                                                   May 2017, Sep 2017
Undergraduate Open Scholarship   Sep 2015, Jan 2016, May 2017
Dean's Honour Roll   Summer 2016, Fall 2016, Spring 2017, Summer 2017
Golden Key Member   Since Sep 2016

INTEREST

- Computer Programming
- Natural Language Processing

- Reading comics and Japanese manga
- Watching animation