Brandon Pokorny

bpokorny234@gmail.com | (847)915-8588 | clickedbigfoot.github.io/clicked/
402 Newberry Dr., Elk Grove Village, IL

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

BS IN LINGUISTICS
Minor in Computer Science
May 2021

SKILLS

PROGRAMMING

Comfortable:
- Python | Several class and personal projects
- C | Several class projects
- SQL
- Bash
- Linux
- Git

Familiar:
- C#
- C++ | Several class projects
- Java | Several class projects
- Windows
- Javascript
- Arduino
- Microsoft Excel

HUMAN LANGUAGES

Spanish
- Illinois State Seal of Biliteracy
- Limited Working Proficiency + (ILR Scale)

French
- Limited Working Proficiency + (ILR Scale)
- Studied for eight years

Korean
- Studied 2 years

OPEN SOURCE CONTRIBUTIONS

TEXTSTAT

Contributor
- Identified and fixed a broken test case failing CI checks
- Implemented a McAlpine EFLAW automatic assessor along with the corresponding additions to the unit tests

PROJECTS

AUTOMATIC COURSE SIGNUP

- Developed a Python script with Selenium that automated logins and other website interactions on a university website for days without stop
- Recreated the script into a Win32 executable using C# for ease of use among less saavy users

ELECTRICITY MANAGEMENT

- Developed an application that automatically scrapes live electricity usage statistics and stores it locally into a csv file
- Analyzed the performance of sklearn machine learning models to make peak predictions in electricity grid loads
- Built a system that stores electricity grid data in an SQL database and utilizes the collected data with machine learning models to save money

COURSEWORK

CORPUS LINGUISTICS

Fall 2020
- Analyzed 20,000 real healthcare reviews using Python, NLTK, and Matplotlib as well as an LDA topic model
- Scrutinized aspects of various corpora and corpus design

DIGITAL SIGNAL PROCESSING

Spring 2021
- Analyzed and modified WAV files using Python to gain insight into audio processing
- Implemented a simple spectrogram and a speech endpoint detection script with Scipy an Matplotlib
- Generated and modified stimuli and white noise signals with Scipy that could be used in simple experiments regarding speech perception in noise

MACHINE TRANSLATION

Fall 2020
- Explored numerous, existing research papers to reproduce and train a state of the art machine translation system
- Solidified my understanding of deep learning architectures and various techniques to improve deep learning systems' performance
- Implemented a language model with a recurrent network using PyTorch