Parker Glenn

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Education

Brandeis University — Waltham, MA
M.S. in Computational Linguistics — *May 2022 Graduation*

University of California, Santa Barbara — Goleta, CA
B.A. in Linguistics, Concentration in Speech and Language Technology — *Sept. 2018 – June 2020*

Technical Skills

Languages: Python, Java, Bash, SQL (Postgres)
Developer Tools: Git, Elasticsearch, Flask, Mechanical Turk, Amazon Web Services, PyTorch, TensorFlow, HuggingFace, NLTK, Dask, SageMaker

Experience

NLP Intern — May 2021 – Present
WorkHuman — *Framingham, MA*

- Developed system for information extraction and temporally-dependent topic modeling with **Gensim** and **Pandas**, winning an internal Customer Strategy innovation competition
- Developed a Python package to calculate and visualize inter-annotator agreement from AWS Ground Truth data, with **Numpy** and **Seaborn**
- Researched novel annotation methodologies, conducting experiments and writing a proposal to integrate into the current system

Graduate Research Assistant — August 2020 – October 2021
Brandeis University — *Waltham, MA*

- Worked in the Lab for Linguistics and Computation
- Researched affordance extraction and multi-modal NLU under Prof. James Pustejovsky
- Designed and deployed **Mechanical Turk** annotation task for pairing actions to images

Junior Software Engineer — October 2019 – August 2020
Briq — *Santa Barbara, CA*

- Previous roles: Data Science Intern, Data Science Associate
- Created and managed **Python** microservices deployed in **Kubernetes** with **Docker**
- Built pipeline for annotating large quantities of documents with **Google AutoML** predictions
- Developed semantic search built on **ElasticSearch**
- Engaged directly with clients to understand their needs, establish time frames, and implement realistic solutions

Project Group Leader — Sep. 2019 – June 2020
Data Science Club, UC Santa Barbara — *Santa Barbara, CA*

- Mentored a group of approximately 100-150 students as they completed and ultimately presented a project applying various techniques in Data Science
- Designed a **Jupyter Notebook** curriculum to introduce beginners to concepts in Git and data visualization

Relevant Projects

SHAP Dimensionality Reduction | *Python, SHAP, PyTorch, SentEval, Numpy* — Sept. 2020 - December 2020

- Conducted research on dimensionality reduction of word embeddings and analyzed performance on downstream tasks
- Used the explainability tool **SHAP** to analyze marginal contributions of embedding dimensions within different machine learning models
- Created a set of tools to visualize linguistic trends learned by the models

Find-A-Ride | *Flask, BigQuery, Selenium, Nginx, Gunicorn, TensorFlow* — Jan. 2019

- Built data aggregation API during local hackathon
- Parsed raw text of Facebook rideshare posts into SQL database including fields for origin, destination, and time of trip
- Trained Random Forest for extracting intent and Bidirectional LSTM for extracting entities from each post

Relevant Coursework

Morphology
Phonology
Semantics
Data Structures and Algorithms
Syntax
Advanced Computational Linguistics
Statistical Methods for NLP
Advanced Programming in Java
Neural Networks and Deep Learning