

Parker Glenn

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EDUCATION

Brandeis University

M.S. in Computational Linguistics

Waltham, MA

June 2020 – May 2022

University of California, Santa Barbara

B.A. in Linguistics, Concentration in Speech and Language Technology

Goleta, CA

Sept. 2018 – June 2020

TECHNICAL SKILLS

Languages: Python, Java, SQL, Bash

Developer Tools: PyTorch, Rasa, Docker, Git, Amazon Web Services (AWS), Google Cloud Platform (GCP), SageMaker, HuggingFace, FastAPI, Flask, NLTK, Mechanical Turk, Pandas, Dask, spaCy, Elasticsearch

EXPERIENCE

Data Scientist

June 2022 – Present

Fidelity Investments

Boston, MA

- Currently working in NLP at the Fidelity AI Center of Excellence
- Develop and maintain conversational AI system to perform text-to-SQL, built on **Rasa**
- Build NLP models to assist in seamless search experiences

NLP Intern

May 2021 – June 2022

Workhuman

Framingham, MA

- Lead Workhuman's first peer-reviewed publication, [The Viability of Best-worst Scaling in Detecting Implicit Bias](#)
- Created system for information extraction and temporally-dependent topic modeling with **Gensim** and **Pandas**, winning an internal Customer Strategy innovation competition
- Developed Python package to calculate and visualize inter-annotator agreement from AWS Ground Truth data, with **Numpy** and **Seaborn**

Graduate Research Assistant

August 2020 – October 2021

Brandeis University

Waltham, MA

- Researched affordance extraction and multi-modal NLU under Prof. James Pustejovsky
- Co-authored paper on [Competence-based Multimodal Question Answering](#)
- Designed and deployed **Mechanical Turk** annotation task for pairing actions to images

Junior Software Engineer

October 2019 – August 2020

Brig

Santa Barbara, CA

- Previous roles: Data Science Intern, Data Science Associate
- Created and managed **Python** microservices deployed in **Kubernetes** with **Docker**
- Developed semantic search built on **ElasticSearch**

Data Science Club Leader

September 2019 – June 2020

Data Science Club, UC Santa Barbara

Santa Barbara, CA

- Mentored a group of approximately 100-150 students as they completed projects applying various techniques in Data Science

RELEVANT PROJECTS

Discourse Referent Prediction | *Python, FastAPI, PyTorch, Docker*

September 2021 - December 2021

- Trained a neural language model with augmented entity representations to predict future referents
- Created model training and evaluation pipeline in **PyTorch**
- Deployed interactive demo to Heroku with **Docker**

SHAP Dimensionality Reduction | *Python, SHAP, SentEval, Numpy*

September 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

RELEVANT COURSEWORK

Data Structures and Algorithms

Advanced Programming in Java

Phonology

Advanced Computational Linguistics

Neural Networks and Deep Learning

Semantics

Statistical Methods for NLP

Morphology

Syntax