Timothy Schott

2430 Prospect St. 107
Berkeley, CA 94704
timschott@berkeley.edu | 571-420-7308
timschott.com | github.com/timschott | linkedin.com/in/timothy-schott

Professional Summary

Experienced Software Engineer with diverse skillset seeking a Machine Learning role focused on Natural Language Processing.

Education

University of California, Berkeley (expected) 2023
Master of Information and Management Science

University of Virginia 2019
Bachelor of Arts, Computer Science and Bachelor of Arts, English with High Distinction

Highlighted Experience

Honors Thesis, University of Virginia Charlottesville, VA
Reading "DT" Leaves: A Digital Analysis of the Lyrical Novel 2018 – 2019

- Integrated practices from NLP and researched an original 51 novel corpus using R, Python and SQLite.
- Engineered 31 relevant features and performed supervised classification with Random Forest and SVM.
- Distilled technical findings to broad audience through data visualization and model interpretation.
- Presented work as a panelist at the 2019 University of Chicago Colloquium on Computer Science.

Institute for Advanced Technology in the Humanities Charlottesville, VA
Research Assistant 2016 – 2019

- Surveyed Supreme Court opinions using Python and R to understand Free Speech and the First Amendment.
- Composed scripts for automatic metadata parsing, name-entity recognition, logistic regression and topic modeling.
- Assisted in the creation of a PostgreSQL database tracking changes in quotation usage over time.

Projects

Natural Language Processing, course project (forthcoming) 2021
Details in the Novel

- Devising original coreference resolution algorithm to automatically identify salient details in fiction.

sBOTus (timschott.com/sbotus) 2020

- Converted data from Oyez API into an original corpus of Supreme Court opinions and their oral arguments.
- Implemented Open AI's gpt-2 with Python to construct a novel language model that provides original "opinions."
- Utilized Google Collab and GPU computing for exposure to industry standards of neural network development.

@WashingtonBezos (twitter.com/WashingtonBezos) 2020

- Architected Python code that ingests every Washington Post article and scans for mentions of Bezos' ownership.
- Using a Google Cloud function, the bot tweets relevant articles with context (with over 300 identifications thus far).

timschott.com 2020

- Constructed portfolio website using Handlebars, CSS and Jekyll to highlight technical background and interests.

logomancing.com 2019

- Designed dictionary website using Node, MongoDB and Handlebars to track usages of unique words in literature.

Professional Experience

Brightspot Reston, VA
Back End Software Engineer, Client Services 2019 – 2021

- Mattress Firm: Produced an automatic data ingestion framework using Java for mattressfirm.com and sleep.com products that eliminated the need for publishers to manually maintain their 5000-product inventory.
- Janes UK: Delivered an ETL Pipeline with Java that seamlessly transforms editorial content into XML and persists data to S3 that increased janes.com publishing activity by 60%.