Timothy Schott

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Professional Summary

Master's student with professional Software Engineering experience seeking an NLP-focused Data Science role. Accomplished interdisciplinary academic background bolstered by outstanding writing abilities and excellent interpersonal skills.
Technologies: Python, R, MySQL, Java, Machine Learning, NLP, Data Science, Git

Education

University of California, Berkeley 2023
Master of Information and Management Science

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

Professional Experience

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

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

Research Experience

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

- Integrated practices from Data Science and NLP to research a 51 novel corpus using Python and R.
- Created 31 original features and performed supervised classification with Random Forest and SVM.
- Explained 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

- Explored Supreme Court opinions using Python and R to understand Free Speech and the First Amendment.
- Wrote code for data analysis, name-entity recognition, logistic regression and topic modeling.
- Assisted in the creation of a SQL database tracking changes in quotation usage over time.

Projects

Applied Natural Language Processing, course project 2021
Details in the Novel

- Devising original language model and analysis pipeline 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 with Python.
- 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

- Leveraged Python and the News API to search every Washington Post article for mentions of Bezos' ownership.
- Tweeted over 300 relevant articles (and counting) using an automated Google Cloud Function and Twitter bot.

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.