Brian M. Cheang

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Education

CORNELL UNIVERSITY   **AUG 2016 – PRESENT**
- Bachelor of Science in Computer Science - GPA: 3.60/4.00
- Minor in Applied Economics
- Anticipated Graduation: May 2019 (One-year MEng in Computer Science starting August 2019)
- Relevant Coursework: Machine Learning for Intelligent Systems, Principles of Artificial Intelligence, Algorithms, Object-Oriented Programming & Data Structures, Human-Centered Design

Skills

- Python, Java, C, HTML, Numpy, Pandas, Scikit-Learn, Tensorflow, Keras

Experience

TEACHING ASSISTANT – INTRO TO COMPUTING USING PYTHON   **AUG 2018 – PRESENT**
- Conducted office hours (3 hours/week) to instruct students on projects and assignments.
- Provided tutoring services in one-on-one setting to help 12 students master course content.

RESEARCHER – CORNELL DATA SCIENCE: NLP RESEARCH TEAM   **AUG 2017 – DEC 2017**
- Co-Authored a research paper using the "Local Authority Model" to investigate differences between local and tourist opinions in Yelp data across 12 different metropolitan areas.
- Designed and implemented a "Local Authority Model" which was able to identify trends in opinions of locals within Yelp challenge dataset using Gaussian mixture models.
- Produced research results to suggest a way to group users by location to improve restaurant suggestion feature for Yelp users using the app in their local area.

SOFTWARE ENGINEERING INTERN – VEAMLY   **JUN 2017 – AUG 2017**
- Wrote a custom python script to automate the pre-processing of text data with issues of inconsistent formatting, reducing training time of natural language processing models by over 200%.
- Implemented alternative supervised learning models to identify and fix problematic bias of the team's model for sentiment analysis of Slack conversations, resulting in a 16% improvement in classification accuracy.
- Created a Slack bot capable of detecting and extracting calls to action from Slack conversations to automate the creation of JIRA tickets for identified task requests.

Projects

DEEP LEARNING DR. SEUSS   **JUL 2018 – AUG 2018**
- Experimented with multiple variations of character-level and word-level LSTM recurrent neural networks to attempt text generation in the style of Dr. Seuss.
- Applied intentional underfitting of character-level LSTM models to increase the formulation of new words. Resulted in a model capable of producing and reusing made-up words similar to Dr. Seuss' renowned use of non-sensical invented words in his works.