BRIAN CHEANG

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Education

CORNELL TECH AT CORNELL UNIVERSITY — **New York, NY**
Master of Engineering in Computer Science, Aug. 2019 - May 2020
Cornell Tech Merit Scholarship
Relevant Coursework: *Applied Machine Learning, Security & Privacy in the Wild, Networks & Markets*

CORNELL UNIVERSITY — **Ithaca, NY**
Bachelor of Science in Computer Science, Aug. 2016 - May 2019
Minor in Applied Economics
GPA: 3.60/4.00
Relevant Coursework: *Machine Learning for Intelligent Systems, Artificial Intelligence, Algorithms, Object-Oriented Programming & Data Structures, Human-Centered Design, Data-driven Web Applications*

Experience

2019 **SIEMENS** — **Schenectady, NY**
Software Engineering Intern
- Orchestrated weekly group studies with power engineers to investigate complications with traditional contingency analysis reports.
- Led iterative design and creation of an XML processor capable of parsing industry standard contingency analysis data.
- Launched GUI to help Siemens PSS®E users visualize and navigate high-complexity data.

2018 **CORNELL UNIVERSITY** — **Ithaca, NY**
Teaching Assistant - Intro to Computing using Python
- 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 concepts.

2017 **VEAMLY** — **San Francisco, CA**
Software Engineering Intern
- 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 team's model for sentiment analysis of Slack conversations, resulting in a 16% improvement in classification accuracy.
- Created a Slack bot to detect and extract calls to action from Slack conversations and automate the creation of JIRA tickets for identified task requests.

Projects

2018 **DEEP LEARNING DR. SEUSS**
- Experimented with 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 models to increase formulation of new words. Resulted in a model capable of producing and reusing made-up terms similar to Dr. Seuss' renowned use of non-sensical words in his works.

Skills

Python, Numpy, Scikit-Learn, Natural Language Processing, Pandas, Java, HTML, CSS, JavaScript, Git, XML