SEBASTIAN PRETZER

Education

MS Northwestern University
Computer Science
Expected June 2019

BA Northwestern University
Computer Science
June 2018

Skills

Python, TensorFlow, Swift,
HTML, CSS, JS, C++, LaTex, Excel

Coursework

Statistical Language Modeling
Natural Language Processing
Deep Learning Foundations
Artificial Intelligence Programming
Intelligent Information Systems
Machine Learning
Internet of Things
Human Computer Interaction

Contact

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Experience

Tempus, Inc

Natural Language Processing Intern, May 2018 - Present
- Applied NLP methods that directly impact analytics Tempus provides to our patients
- Built out the pipeline to automate the machine learning processes

WebSAIL

Research Assistant, January 2018 - Present
- Investigated the effectiveness of word embeddings in generative models of dictionaries
- Improved on Definition Modeling to include parts-of-speech and context

Backlight Resumes

Researcher, June 2017 - June 2018
- Developed a deep learning model to autonomously optimize a client's resume
- Modified Google's Neural Machine Translation System for translation of unedited resumes to edited ones

Projects

Pathology Report Extractor
- Built end-to-end system to extract cancer information from unstructured pathology reports from the Genomic Data Commons
- Implemented an OCR, spell-checker, Grakn's knowledge graph, and HazyResearch's Snorkel information extraction model

Crowd Density Monitoring
- Led team to build a doorway sensor to monitor people entering and exiting a space, such as a cafeteria, library, etc.
- Applied machine learning techniques to data to try to detect patterns in movement in and out of rooms

Impact of Modern NBA Positions
- Manipulated player statistics to cluster NBA positions that do not coincide with the traditional 5 positions
- Found insights into combinations of positions and their