CLIVE UNGER

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Seeking internship for Summer 2020 before starting second year of BSEE/MSE Integrated Program at UT Austin

EDUCATION

The University of Texas at Austin   M.S.E., B.S., Electrical and Computer Engineering   **May 2021**
Minor: Business Foundations
GPA: 3.76/4.00

Coursework   Data Science, Digital Signal Processing, Distributed Systems, Algorithms, Data Structures
Skills   Python, Java, Scala, Apache Spark, Apache Kafka, Perl, C/C++, SQL

EXPERIENCE

Capital One – *Data Engineering Intern; Mclean, VA*   Summer 2019
- Developed Spark job to generate nodes and edges from real-time data to identify unauthorized production changes using community detection algorithm
- Updated AWS CloudTrail parser to utilize a new streaming architecture built around Apache Kafka
- Collaborated with Streaming Data team to fix data serialization issues when writing to Elasticsearch
- Simplified pipeline by consolidating multiple Spark jobs into one, alleviating need for AWS resources
- Participated in Agile methodologies, including standup and two-week sprints, to receive constant feedback

NXP Semiconductors – *Software Engineering Intern; Austin, TX*   Summer 2018
- Developed data analysis tool in Perl to extract and organize metric data from automation logs
- Improved data collection accuracy by 20% by identifying critical bugs in the automation flow
- Automated the generation of reports for performance analysis and status updates of batch jobs
- Presented project results to panel of upper management and suggested future improvements

PROJECTS

Capo, GroupMe Payments Bot – *Capital One Intern Hackathon*   Summer 2019
- Built a text bot with Python and Flask to handle payments within the GroupMe app analogous to Venmo
- Added functionality to check service wait-time in a Capital One Café using pre-trained neural network to identify number of people in a room

Quora Question Sincerity Classification – *Data Science Class Project*   Fall 2018
- Using neural networks, created model to identify and flag insincere questions from Quora
- Increased word embedding coverage from 20% to 90% through text preprocessing: cleaned contractions and punctuation, dropped non-printable characters and stop words, corrected common misspellings
- Analyzed logistic regression weights to identify which words make a question "insincere"

Kaggle: Class Competition – *Data Science Lab*   Fall 2018
- Applied feature engineering methods such as normalization, dropping noisy columns, and oversampling
- Built a stacked classifier from multiple models such as Random Forest, Logistic Regression and XGBoost
- Placed 6th overall with a ROCAUC score of 0.91761 and received highest grade based on report

/r/HipHopHeads Twitter Bot – *Personal Project*   June 2018
- Built a bot using Python to query reddit.com/r/hiphopheads and tweet rising new posts
- Deployed project as an AWS Lambda function to automatically run every 5 minutes

LEADERSHIP & HONORS

Texas Iron Spikes – *External Vice President, Administrative Officer*   Fall 2017 – Present
- Streamlined merchandizing process for organization; saved 5% of annual budget
- Assisted in raising over $35,000 for the Special Olympics of Texas through multiple service events

Unrestricted Endowed Presidential Scholarship – Merit-based award nominated by faculty   Fall 2018
Eta Kappa Nu (HKN) – Electrical Engineering Honor Society   Spring 2018