

# CLIVE UNGER

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## EDUCATION

**The University of Texas at Austin** Bachelor of Science, Electrical and Computer Engineering **May 2020**  
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 6<sup>th</sup> 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