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   Java, Python, Perl, Scala, Apache Spark, Apache Kafka, C/C++, SQL

EXPERIENCE

Capital One – *Data Engineering Intern*   Summer 2019
- Developed Spark job to generate nodes and edges from real-time data for community detection algorithm.
- Improved AWS CloudTrail parser to utilize an updated streaming architecture for change monitoring.
- Collaborated with Streaming Data team to fix data serialization issues when writing to Elasticsearch.
- Simplified multiple batch jobs into one, alleviated need for AWS resources, and improved performance.

NXP Semiconductors – *Software Engineering Intern*   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.

UT Solar Vehicle Team – *Electrical Team Member*   Jan 2017 – Aug 2017
- Upgraded and assembled subsystems of a solar car, attaining 50% more performance from previous races.
- Led five-person sub-team to debug mission critical systems during 2017 American Solar Challenge.
- Researched embedded systems solutions for solar powered vehicles to aid team in new development.

PROJECTS

Quora Question Sincerity Classification – *Data Science Class Project*   Fall 2018
- Using Neural Networks, determined the sincerity of Quora question strings to filter toxic comments.
- Increased word embedding coverage from 20% to 90% by preprocessing: normalizing punctuation, slang.
- Processed tokenized question strings into RNNs and ensembled results.

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.

Mock Startup – *McCombs Summer Institute*   Summer 2017
- Researched and developed marketing strategy, legal formation, and financial plan with a team.
- Conducted market validation via a 100+ person survey to locate target customers and plan strategy.

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