

Education

University of Texas at Austin

GPA: 3.91

PURSuing B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Aug. 2018 - Exp. May 2022

- Relevant Coursework: Operating Systems, Software Engineering, Data Structures, Predictive Analytics, Stochastic Processes

Work Experience

NCR

Dallas, TX

SOFTWARE DEVELOPMENT INTERN

May. 2019 - Aug. 2019

- Rewrote legacy back-end API of application (Aloha) used by thousands of restaurant managers across the US
- Upgraded API to .NET Core from .NET Framework, and deployed application to Linux Docker running in Azure for better performance
- Ran automated tests using Gatling on API calls such as logging in and executing stored procedures on restaurant databases

HomeAway

Austin, TX

DATA ANNOTATOR

Jan. 2019 - Jul. 2019

- Annotated data and worked with text-based natural language processing
- Contributed to team of full time employees with data prep and sequence to a sequence machine learning model

Applied Research Laboratories

Austin, TX

SCIENCE AND ENGINEERING APPRENTICE

Jun. 2018 - Aug. 2018

- Implemented a PostgreSQL database using normalization techniques for the Space and Geophysics Laboratory's inventory
- Created data analysis tools using queries and views to make the previously cumbersome inventory system easy to use
- Automated '.hdf5' system log file generation and parsing for real-time database inserts using C++ and Python

Projects

Predicting Stocks using Twitter Sentiments | Python (scikit-learn, pandas, nltk), Twitter API

Sep. 2019

- Utilized sentiment analysis from thousands of tweets to correlate the public opinion of a company with their stock prices
- Used a neural network to make predictions, (still a work in progress)

Portfolio Website | React JS, Bootstrap, Github API

Aug. 2019

- Personal portfolio website that I created using React and Bootstrap
- Includes API calls to github that dynamically generates a display of my pinned repositories

Huffman Compression GUI and Backend | Java, Swing

May. 2019

- Bit level encoding algorithm with the ability to compress all file types
- Implements a Huffman Tree and a priority queue

Measuring Repetition in Speeches using LZW | Python, RStudio

May. 2018

- Analysis of how repetition has increased over time in US presidential speeches
- Implemented the Lempel-Ziv-Welch compression algorithm in order to measure repetition of words and phrases

UTLaundry | Android Studio, Firebase, Microsoft Vision API

Oct. 2018

- Android application which displays the availability of washer/dryers in the residence halls
- Updates laundry status through vision API which detects how much time is left with each machine, completed at HackTX

Skills

PROGRAMMING LANGUAGES

- Python (numpy, scikit-learn, pandas), Java, C++, C#, Scala, SQL, x86, R

WEB/MOBILE DEVELOPMENT

- Android Studio, React JS, HTML, Bootstrap, Git, LaTeX, .NET, AWS, Azure, Firebase

Extracurricular Activities

Texas Spacecraft Laboratory (TSL)

Austin, TX

SEEKER TEAM

Feb. 2020 - PRESENT

- Student-driven research group dedicated to designing and building hardware and software for space missions, in conjunction with NASA.

Association for Computing Machinery at UT Austin (ACM)

Austin, TX

MEMBER

Aug. 2018 - PRESENT

- Focused on the advancement of computer science studies and research through events that serve its members and the community