Connor Fritz

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Education

University of Texas at Austin
BS Computer Engineering *GPA: 3.97* Sept 2016 - Dec 2020

Skills

Programming: Java, Python, JavaScript, React, HTML/CSS
Data Science: Numpy, Pandas, SQL, Keras, Sklearn, Statistics

Work Experience

Data Science Intern · ***Dell Technologies*** June 2019 | Present

- Built a machine learning model, trained on millions of samples, to recommend motherboard repair actions to technicians
- Designed and submitted a patent for an assistive GUI for motherboard repair
- Used Python, sklearn, keras, SQL and PySpark for feature engineering and model building

Honors Scholar Intern · ***The Applied Research Laboratories*** June 2018 | August 2019

- Used unsupervised machine learning techniques to build an algorithm for clustering and tracking objects from sonar data
- Extracted features from clusters to train supervised learning algorithms to detect underwater entities such as schools of fish or bathymetric ridge
- Presented and discussed project methods and results with senior members of the laboratory

Research Assistant · ***The BioME Lab*** August 2017 | August 2018

- Designed and tested the viability of 'Gut-Chips' used to simulate the intestinal wall
- Employed techniques such as soft lithography, mammalian cell culture, gel electrophoresis, PCR, corona treatment, plasma cleaning and 3D modeling with SolidWorks
- Drafted papers, figures, and a fellowship proposal, which was granted, for a triple layer 'Gut-Chip'

Learning Assistant · ***Computational Fund. of BME Design*** January 2018 | May 2018

- Guided students through the completion of projects such as building an EKG, a flashlight, and a 3D printed puzzle cube
- Taught students programming in Python, basic signal processing, circuit design, and 3D modeling

Projects / Leadership Positions

Treexas - Texas Plant IDB • *Python, Django, JavaScript, MySQL, HTML/CSS*
An interactive database which allowed the user to search for, explore, and learn about texan plants, state parks and ecoregions.

Neural Net for ASL Hand Sign Identification • *Python, Pandas, Keras*
A research project which used a convolutional neural network to identify ASL hand signs with accuracies exceeding 99%

Give Me Some Space - Handheld Game • *C*
A handheld, 2 player videogame which included various sounds, stages, and sprites. Hardware and software built from scratch. Received 6th place out of 36 teams

Texas APO - Blood Drive Coordinator
Successfully oversaw a team of 15 to organize a blood drive which secured a record 513 donations and reduced costs by 33%

Honors

Government Clearance - Secret 2018
Undergraduate Research Fellowship 2018
Eagle Scout 2016