Scott Chase Waggener

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Education

The University of Texas at Dallas

Aug. 2018 - May 2020

M.S. IN COMPUTER SCIENCE - 4.0 GPA

Collaborated with a faculty member to produce deep learning demonstrations using Tensorflow 2.0, Google Colab, and Docker.

The University of Texas at Austin

Aug. 2012 - Dec. 2015

B.S. IN PHYSICS - 3.53 GPA

Modified the hardware and software implementation of a scanning tunneling microscope using LabView to automate tip descent for the physics senior lab. Practiced the fundamentals of biomedical research through the freshman research initiative as part of a research group investigating supramolecular sensors.

Technical Skills_

Languages Python, Java, Scala, C/C++ **Operating Systems** Linux, BSD, MacOS, Windows 10

Tools Tensorflow, PyTorch, Git, Unix Shell, Hadoop, Spark, SQL, NoSQL, HBase, Cassandra, Docker, AWS, Latex

Academic Projects

Automatic Summarization

Oct. 2019 - Dec. 2019

EXTRACTIVE SUMMARIZATION WITH BERT AND OTHER ARCHITECTURES

Reimplemented the BERTSUM extractive summarization network using PyTorch and Docker to serve as a baseline model. Created an alternate BERTSUM implementation using Tensorflow and Google Colab to study the performance gains of TPU training at lower precision.

Tiny ImageNet Demonstrations

May 2018 - Sep. 2018

STUDENT VOLUNTEER FOR FACULTY MEMBER

Developed scripts using Bash and Docker to downsample the ImageNet vision dataset to 64x64 pixels. Implemented vision networks based on Resnet and Inception-Resnet in Tensorflow for dominant object classification, achieving 53% top-1 validation accuracy in 24 hours of training.

Neural Stock Prediction July 2018 - Aug. 2018

PREDICTING FUTURE TRENDS WITH DEEP LEARNING

Implemented a preprocessing pipeline with Apache Spark and Scala to process daily stock histories for 8,000+ securities. Created a convolutional and transformer based neural architecture in Tensorflow 2.0 to predict future prices using a discretized classification approach, achieving 51% overall top-1 accuracy.

Experience _____

Paladin Technologies, DBA.

Jan. 2014 - Aug. 2018

SOLE PROPRIETOR

Provided information technology and design services on a contract basis. Responsibilities included: connecting with potential customers, planning an approach or design to address their problem, and executing that plan. Upgraded approximately 50 ATMs across South Texas for Action ATM to ensure EMV compliance.

Activites

Driscoll Children's Hospital Volunteer Private Pilot's Training & Certificate Mar. 2016 - May 2017 Aug. 2010 - Aug 2011

DECEMBER 2, 2019 SCOTT WAGGENER · RÉSUMÉ 1