

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

Collaborating with a research group to improve detection of microbubbles in ultrasound images using neural approaches. Worked 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

Implemented multiple networks based on the BertSum architecture using PyTorch and Docker. Explored the use of NVidia's Apex library to train float16 models in PyTorch.

Distributed File System

Nov. 2019 - Dec. 2019

JAVA IMPLEMENTATION BASED ON GOOGLE FILE SYSTEM

Implemented a distributed file system based on the Google File System using Java. Automated the creation of multiple clients and servers using Docker Compose.

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 produce an alternate Tiny Imagenet. Implemented vision networks based on Resnet and Inception-Resnet in Tensorflow for dominant object classification.

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.

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.

Activities

Driscoll Children's Hospital Volunteer

Mar. 2016 - May 2017

Private Pilot's Training & Certificate

Aug. 2010 - Aug 2011