

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, SQL, Git, Hadoop, Spark, NoSQL, 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 UTD FACULTY

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 📄

May. 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 variety of metrics, achieving 51% overall top-1 validation accuracy.

Experience

Paladin Technologies, DBA.

Jan. 2014 - Aug. 2018

SOLE PROPRIETOR & SOFTWARE ENGINEER

Planned and executed the upgrade of approximately 50 ATM machines for Action ATM to ensure EMV compliance. Designed and implemented IoT solutions using Python and C++ to be run on Raspberry Pi or ESP8266 systems. Provided remote administration and EMV compliance services to Cambria Adara Properties LLC using SSH, TeamViewer, VNC, and nmap.

Activities

Driscoll Children's Hospital Volunteer

Mar. 2016 - May 2017

Private Pilot's Certificate

Aug. 2010 - Aug 2011