

Luke Wood | Google Software Engineering Intern

3.8 Major GPA | Southern Methodist University

lukewoodcs@gmail.com | Github Profile: LukeWoodSMU | (858)-775-1566

Work Experience

Google

San Francisco, CA

Software Engineering Intern

May 2017-Current

- Reworked Firebase console into a progressive web app
- Implemented offline functionality using service workers
- Supported add to homescreen on Android and ChromeOS

AT&T Big Data

Dallas, TX

Big Data Intern

September 2016-May 2017

- Wrote a Scala Spark library for sparse graph analysis
- Created a series of in-browser 3D data visualizations in three.js
- Led tech development meetings on graph theory and convolutional neural nets

Northrop Grumman

San Diego, CA

Software Engineering Intern

May 2016-August 2016

- Created a fully automated GUI testing system using Python and VB Scripting
- Worked on a TestStand sequence
- Automated a code quality test

Recent Open Source Work

Keras GloVe Embeddings

- Pretrained GloVe embedding implementation for keras
- Published to PyPi repository under kerasglove
- Fully compatible with keras using either tensorflow or theano backend

Tensor Product Convolutions for Text Data

- Implemented a new type of convolution for text data
- Used to achieve state of the art results in sequence classification
- Based on the results of a paper published by Andrew Ng at Stanford

Recent Projects | Blog: <https://LukeWoodSMU.github.io/>

Spam Text Detector Using Recurrent Neural Network

- Trained a classifier using GRU, LSTM, and vanilla RNN architectures
- Completed a grid search to determine the most effective hyper parameters
- Most effective model got 99.6% accuracy and 99.8% precision

Convolutional Neural Network Classification

- Classified cats and dogs using a tensorflow CNN
- Compared performance to a multi layer perceptron
- Visualized the filters learned by the CNN

Honors

- Cornerstone Scholarship
- President of Upsilon Pi Epsilon Society for Computing