

Lucas Wood

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Education

- Southern Methodist University - Dallas, Texas
Bachelors of Science in Computer Science

Major GPA: 3.785
Graduation: May 2018

Honors

- Initiated to Upsilon Pi Epsilon, International Honor Society for the Computing and Information Disciplines
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Work Experience

AT&T Big Data

Dallas, TX

Big Data Intern

September 2016-Current

- During the Fall, I utilized my skills in 3D data visualization to create unique data visualizations in order to provide our customers with unique ways to display and analyze the data sets they provided to us.
- During the Spring I am currently scheduled to work on something machine learning oriented; this is currently undecided.

Northrop Grumman Information Systems

San Diego, CA

Software Engineering Intern

May 2016-August 2016

- I used my skills in Python and VB Scripting to develop I developed a fully automated GUI testing system
 - I worked on a TestStand sequence as part of the non-annual sustainment program for the Joint Strike Fighter
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Projects | <http://LukeWoodSMU.github.io/>

AREA-51 | <http://LukeWoodSMU.github.io/AREA-51>

- WebGL Visualization of each UFO sighting across the United States from 1995-1996.
- Demo at <http://LukeWoodSMU.github.io/AREA-51> (AREA must be all caps)

The Grateful Net | <https://github.com/LukeWoodSMU/theGratefulNet>

- This is a research heavy project; I have been exploring the mathematics behind Neural Networks.
- I created a recurrent neural network and trained it on the lyrics of The Grateful Dead.
- Currently I am in the middle of transitioning to a Long Short Term Memory Network.

TF/IDF Inverted File Search Engine

- I created a search engine from the ground up in C++ to place relevant words from articles into an index sorted by TF/IDF; Hash Table of AVL Trees created from the ground up using only basic standard library functionality
 - The search engine allows for boolean query processing
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Achievements

\$1000 Big Ideas Competition

- Worked with a partner to create a single page of web application to provide users with local Dallas events relevant to them based on their preferences.
- Our business plan, concept, and current progress won us a \$1000 prize

Data Structures Sorting Competition

- A friend and I achieved 2nd place out of 40 teams in sorting a gigantic list of strings of various sizes. We outperformed first place algorithm in data sets containing few duplicates but had a slightly higher average runtime on natural language.
 - Used a combination of Bucket Sort followed by Quicksort with a switch to Insertion Sort at partition set size of 9 to achieve maximum speed all implemented from scratch in C++.
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Volunteer Experience

The League of Amazing Programmers

Carmel Valley, CA

Youth Computer Science Teacher

May 2015-August 2015

- Taught a Java course to youth students covering basic concepts and GUI implementation
- I greatly improved my communication skills through teaching the students something entirely new to them