Harry Wang

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EDUCATION

Duke University **May 2020**

BS Computer Science & Statistics GPA: 3.68
Relevant Coursework: Data Structures and Algorithms (CS201), Discrete Mathematics (CS230), Computer Architecture (CS250), Design and Analysis of Algorithms (CS330), Probability and Statistics (STA111), Multivariable Calculus (MA212)

EXPERIENCE

Frontend Engineer, LUCAS **Oct 2017—Present**

- Built a social network analysis graph using after using NLP on a data set through Python
- Implemented JGraph and Flask on the SNA graph to create a 3D visualization of data
- Created test cases on social network analysis and natural language processing module

Software Engineer Intern, Seedr **May—Aug 2017**

- Created a prototype in GoLang that aims to improve current WebDAV standards by 200%
- Helped implement improvements to current systems which increased overall efficiency by 30%
- Designed the prototype by researching which modern network protocol should be used
- Researched and reported on advantages and flaws of network and file sharing protocols
- Examined and analyzed the impact of different congestion control algorithms on P2P protocols

PROJECTS

Simple WebDAV in Go **Aug 2017**

- Coded a program in GoLang that uses OSxFuse to create a simple file-system in user-space
- Plans to integrate a modern transport protocol will improve its efficiency by 200%
- Increase in efficiency could lead to it being used as a high speed database
- Integration of transparency and efficiency of storage could lead to big data usage

Emotion Recognition With TensorFlow **Jun 2017**

- Built a program in Python using TensorFlow to recognize whether a person is "happy" or "sad"
- Designed the program to be trained off Inception and 320 images scraped off Google Images
- Program is able to discern sadness to an 80% accuracy as issues stem from weak training data
- Integration with Google Cloud can scale it down as an app to detect facial expressions

Huffman Compression **Dec 2016**

- Program written in Java that compresses and decompresses files through Huffman trees
- Uncompressed files can roughly be reduced in size by 30% through the lossless compression

LEADERSHIP & EXTRACURRICULARS

Secretary, Brownstone Living Group **May 2017—Present**

- Provided administrative support to members by maintaining schedule and event calendars
- Composed, typed, weekly reports and established work procedures to track members tasks

Head Boy, King George V School **Jan 2015—Jan 2016**

- Initiated and created a student run tech support team to help with computer issues
- Created plans with school board members to budget $4 million on campus development
- Strengthened alumni relations through workshops where alumni provide interview experiences

SKILLS

Languages: Mandarin native proficiency
Technical Skills: Java; Javascript; HTML; CSS; Python; C; TensorFlow; GoLang; MIPS; Git; MySQL; Solidity