

Harry Wang

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EDUCATION

Duke University

May 2020

BS Computer Science & Statistics GPA: 3.68

Relevant Coursework: Design and Analysis of Algorithms (CS330), Software Design and Implementation (CS308), Web Applications (CS290), Data Structures and Algorithms (CS201), Discrete Maths (CS230), Computer Architecture (CS250), Regression Analysis (STA210), Probability (STA230), 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%
- 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

ML Stock Market Prediction and Algo Trading

Dec 2017

- Created a program in Python to predict stock adjusted closing prices with 46% accuracy
- Amassed SP500 data into a correlation table for machine learning using classifiers
- Designed a trading strategy on Quantopian with an overall 5.8% total returns (2015-2016)

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

LEADERSHIP & EXTRACURRICULARS

Teaching Assistant, CS230 Discrete Maths

Jan 2018—Present

- Lectured 15 students weekly on mathematical proofs for algorithm correctness and analysis
- Held office hours and graded student work weekly to review mathematical concepts

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

SKILLS

Languages: Mandarin native proficiency

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