Haocheng An

haochengan@utexas.edu (512) 431-0893 https://www.cs.utexas.edu/~henear

EDUCATION

The University of Texas at Austin   *Aug 2017-May 2019(Expected)*
Master of Science in Computational Science, Engineering and Mathematics   GPA 3.66/4.00
The University of Texas at Austin   *Jan 2014 - May 2018*
Bachelor of Science in Computer Science, CS   GPA 3.92/4.00
Bachelor of Science in Mathematics, Mathematical Sciences

RELEVANT COURSEWORK

(CS) Big Data Programming, Database, Machine Learning, Neural Networks, NLP, Programming Language
(Math) Regression, Stats, Probability, Stoc process, Numerical Analysis, Math Modeling, MCMC

SKILLS

Programming Language Java (Hadoop, Spark)/C   **Script Language** MATLAB/SQL/R/Python/HTML

WORK EXPERIENCE

Software Development Intern, Oracle Corporation, Boston, MA   *May 2018-Aug 2018*
●Augment 12 extra metrics from meter report and remove all duplicates walker result in the report
●Automate meter report to DB process by Python and write SQL queries to track server/user behavior
●Predict user number& aggregation file size using LSTM, regression and Bollinger Bands with error ~2%

Software Development Intern, Cisco Systems, Inc, Dallas, TX   *Jun 2017-Aug 2017*
●Query more than 9000 result counts for each 4 nodes and 5 service ID from Kibana using Elasticsearch
●Predict count's normal interval for sparse count cases using statistical methods and ARIMA thoughts
●Develop Python micro service to alarm engineers if actual count falls outside of the normal interval

Research Intern, Institute for Computational Engineering and Sciences, Austin, TX *Jun 2016-Aug 2016*
●Implement condition number estimation of matrices with dimensions 500~10000 using C and BLIS
●Co-Plot the performance and accuracy of the estimations by MATLAB and compare with LAPACK
●Draft a 16-page research report, design a poster and present to fellows, PhDs, and professors

SELECTED SIDE PROJECTS

ICLR Data Crawler   *Dec 2018*
●Fetch 6 features for more than 2000 papers submitted to ICLR 2018,2019 using Python, store in JSON

Call Log Classification Hackathon   *Jan 2018*
●Extract 5 features for all 400k call logs and digitalize it to a 400k dimension matrix
●Develop a CNN through tensorflow to analyze the matrix and achieve 97% accuracy on classification

Tic-tac-toe Game   *Mar 2017*
●Implement the Platform to Support man vs man, man vs machine Tic-tac-toe game on the 3*3 board
●Implement 5 different level of machines' strength for the man vs machine mode in Java

HONORS AND AWARDS

Early membership (Junior Elected) of Phi Beta Kappa   *Nov 2016*
Nominee of Unrestricted Endowed Presidential Scholarship by Department of Mathematics   *Feb 2016*
Top 25% in William Lowell Putnam Mathematical Competition   *Dec 2014*