Haocheng An

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EDUCATION

The University of Texas at Austin

Expected May 2019

Bachelor of Science in Computer Science, CS

Cumulative GPA 3.9/4.0

Bachelor of Science in Mathematics, Mathematical Sciences

Master of Science in Computational Science, Engineering and Mathematics

RELEVANT COURSEWORK

(CS) Data Structure, Algo, Big Data Prog, DBMS, Machine Learning, Neural Networks (Taking) NLP

(M) Real Analy, Stats, Probability, Stoc process, Num Analy, Linear Alg, DiffEq, Modeling(Taking)MCMC

SKILLS

Natural Language Chinese
Computer Tools Word/PPT/Excel/LaTeX

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

WORK EXPERIENCE

Software Development Intern, Cisco Systems, Inc, Richardson, 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

Undergraduate Assistant, College of Natural Sciences, UT Austin

Jan 2015-Dec 2017

☼ Offer guidance on math, physics and/or computer science problems to 10 students each week ☼ Provide advice to students on test preparation and taking strategies and course registration

& Grade the programming and proof homework for applied number theory class

RELEVANT PROJECTS

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

MapReduce Sept 2016-Dec 2016

☼ Implement Inverted Index, User Sessions by using Hadoop and Spark respectively
☼ Utilize AVRO Files and Hadoop to characterize the behavior of users by analyzing user session data
☼ Use Spark MySQL interface to get average, min, max of large data set

COMMUNITY INVOLVEMENT

Committee Chair of Membership Induction, Phi Beta Kappa(PBK)

Oct 2017-Present

& Introduce the club and the membership policy to the new inductees & Coordinate with other board members to plan out club social events

HONORS AND AWARDS

Nominee of Unrestricted Endowed Presidential Scholarship by Department of Mathematics

Feb 2016
Top 25% in William Lowell Putnam Mathematical Competition, Austin, Texas

Dec 2014