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

Incoming Software Development Intern, Oracle Corporation, Boston, MA *May 2018-*
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

SELECTED SIDE PROJECTS

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, Austin, Texas *Dec 2014*