Mengtian "Astro" Li

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EDUCATION

Tufts University, Medford, MA
Bachelor of Science in Computer Science and Mathematics, May 2017
Bachelor of Science in Mathematics, May 2017
GPA: 3.84 | Dean's List all semesters
University of California, Berkeley, Summer 2014

SKILL

Programming Skills: C/JAVA/Python/HTML /CSS/JavaScript
Software Skills: Excel/Unix/Git/SQL

RELEVANT COURSEWORK

Machine Structure and Assembly Language Programing, Data structures & Programming Methodology (Berkeley), Probability, Statistics, VBA Programming, Algorithm, Networks, Web programming, Intro to Digital Logic Circuit
Currently Taking: Machine Learning, Operating System, Security, Real Analysis

WORK EXPERIENCE

Tufts University, Medford, MA
Teaching Assistant, Math Department, September 2014 – Present

- Grade weekly homework for Linear Algebra and Multivariable Calculus

Tufts University, Medford, MA
Teaching Assistant, Computer Science Department, September 2014 – Present

- Host Intro to Computer Science lab sessions with a class size of twenty
- Grade project-based Intro to Computer Science coding assignments and weekly Discrete Math written homework

Beijing Keytec Information System Co., Ltd., Beijing, China
Quality Assurance Intern, June 2015 – August 2015

- Worked with a mentor and a team of 5 to test an online forum
- Generated automated tests to exhaustively test new features

PROJECTS

Compression and Decompression Program (Java version)

- Applied the idea of Huffman encoding to compress given file
- Built a Binary Search Tree to generate the decipher table

Compression and Decompression Program (C version)

- Used the high performance of cache to implement a 2D Array data structure in C to store image information and functions including Flip and Rotation
- Built an image compressor by packing adjacent data blocks and converting RBG format to video component format

"Foodtrek" website (Ruby on Rails)

- Developed foodtrek.herokuapp.com
- Built a website application in a team of 5. Built on Ruby on Rails, applied Postgres Sql database

K-nearest neighbors program (Python)

- Implemented KNN algorithm with feature selection as relief method
- Improved accuracy roughly by 20% with relief method

ACTIVITIES

Tau Beta Pi, Member, October 2015 – present
Tufts CSX, Member, September 2015 – present
ACM, No. 4115349, March 2015 – present
Tufts Emergency Medical Service, EMT, February 2014 – January 2015