

EDUCATION

- **The University of Texas at Austin** Austin, TX
Master of Science in Computer Science Aug. 2018 – CURRENT
- **Zhejiang University** Zhejiang, China
Bachelor of Engineering in Computer Science and Technology; GPA: 3.91/4.00 (10%) Aug. 2014 – June. 2018

EXPERIENCE

- **Visiting Student** Simon Fraser University, Vancouver, Canada
Paper Submitted to KDD 2018 Oct 2017 - Feb 2018
 - **Graphic Model:** Proposed a Collaborative Active Learning Tree model(Matlab) .
 - **Contributions:** Empowered the tree-based learning algorithm by exploiting content information of movies, solved low responsiveness and unbalanced tree problem.
 - **Prediction:** Applied Matrix Factorization implemented by Spark to predict movie ratings.
 - **Performance:** Implemented baselines on MovieLens dataset, achieved **5%** boost on RMSE for predicting ratings of new movies.
- **Research Intern** National University of Singapore, Singapore
Mobile App for Food Logging and Recommendation Jul 2017 - Sep 2017
 - **Flask:** Designed a RESTful API(Python) with Flask to interact with the app, processed the pictures posted by users and fetched nutrient values of the food in the pictures.
 - **Food Sorting:** Implemented two-constraint sorting based on generic algorithm(Python), sorted foods according to their taste and health value
 - **Optimization:** Reduced the app's built-in camera delay by using AsyncTask.

PROJECTS

- **MiniSQL**
A Mysql-like Database Managerment System in Java Spring 2018
 - **Functions:** Implemented create/drop for tables, select/insert/delete/update for records, create/drop for indices.
 - **Query Efficiency:** Built index manager module based on **B+ tree** structure, doubled the query efficiency.
 - **Disk Access:** Achieved buffer manager for memory scheduling by **LRU algorithm**, minimized disk access time.
- **Mini-C Compiler**
A language compiler translating C into executable MIPS assembly language Autumn 2017
 - **Abstract Syntactic Structure:** Used **Flex/Bison** tools for lexical/syntax analysis, generated syntax tree.
 - **Instruction Selection:** Applied **Dynamic Programming** for instruction selection, achieved optimum tiling by choosing the subtree with minimum cost for each step, reduced the execution time of the final MIPS code.
 - **Register Allocation:** Implemented **Graph-coloring** register allocation, spilled temporaries unable to get registers into memory, reduced memory reads/writes and total memory usage.
- **Room Break**
A game implemented by OpenGL Spring 2017
 - **Environment Modeling:** Created the game scene by **Maya**, implemented light control and texture control modules by **OpenGL** libraries.
 - **Game Controller:** Built movement and collision detection modules by designing a map for items.
 - **Event Controller:** Implemented event controller module by **GLUT**, enabled mouse and keyboard control.

SCHOLARSHIPS AND CERTIFICATES

- Graduate Research Assistant at the University of Texas at Austin Current
- Academic Scholarship of Zhejiang University, First Price (Top 1%) Sep 2015

PROGRAMMING SKILLS

- **Languages:** C, Java, Python, Matlab, SQL **Skills:** Data Analytics, NLP, RecSys, Database