

Juye Xiao

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EDUCATION

UNIVERSITY OF MICHIGAN

Ann Arbor, MI, USA

Bachelor of Science in Computer Science; Bachelor of Science in Data Science

Overall GPA: 3.72

Relevant Coursework: Programming and Data Structure, Data Structure and Algorithm, Introduction of Computer Organization

University Honors

May.2019

PENNSYLVINNA STATE UNIVERSITY

University Park, PA, USA

Bachelor of Science in Mathematics; Bachelor of Science in Computer Science

Major GPA: 4.0 Overall GPA: 4.0

Aug.2017–May.2018

Relevant Coursework: Linear Algebra, Discrete Math, Calculus, Differential Equation, Introduction of Digital System and Design, Introduction of Python, Introduction of Java, Elementary Statistics

The President's Freshman Award

April.2018

Dean's List

FA 2017 & SP 2018

HIGH SCHOOL AFFILIATED TO RENMIN UNIVERSITY OF CHINA

Beijing, China

Honor Class

Sep.2013-Jun.2016

EXPERIENCES

Internship, DiDi, Beijing, China, June.2019 – August.2019

- Building a website performance monitoring platform basing on lighthouse and puppeteer (React, Node.JS)
- Involving in DiDi Internationalization process, and learn deploying webpage using Three.js
- Learning and utilizing Kafka to develop a collaborative tool for cooperative editing of documents in real-time.

Internship, Gamecore, Beijing, China, May.2018 – July.2018

- Using Ruby to identify and reorganize the tags in database.
- Utilizing ruby crawler to gather useful information from mainstream game website
- Collaborating with team members to compose and post articles on the website (HTML, Sass, Ruby on Rail)

COURSE PROJECTS

LC-2K (C)

- Write an assembler to translate assembly-language program into machine language and write a cycle-accurate behavioral simulator for a pipelined implementation of the LC-2K.
- Simulate a CPU cache and write a Cache simulator for LC-2K.

Traveling salesman (C++)

- Implement Minimum Spanning Tree algorithm.
- Use Branch and Bound algorithm to find an optimal solution.

Identifying subjects of posts (C++)

- Write a program that can automatically identify the subject of posts from Piazza.
- Use recursion, binary trees, templates, comparators, map, and a simplified version of a "Multi-Variate Bernoulli Naive Bayes Classifier" to classify the Piazza posts.

Star War Simulator (C++)

- Write a program that works similarly with a stock market simulator. Using the priority queue, running median, and streaming algorithm to simulate the battles on different planet and give the most exciting war (In stock market, give the point which to buy and sell later to achieve the highest profit)
- Implement the pairing priority queue interface.

LEADERSHIP

Vice Minister of Treasure, Active member of Event Planning, ACES Dance Club, Sep.2017-Sep.2018

- Applied for UPAC funds, managed the ASA account
- Gave performance in kinds of university-run activities, including THON Dance Marathon.
- Organized banquet, showcase, Mid-Autumn Party, and the Voice of CUSA-PSU, etc.
- In charge of Stage setting, garment management, and after-show banquets

Team leader, Economic Research and Learning Group, Sep.2014-Jun.2015

- Led the team to gather and analyze data of disposed batteries' negative impact on farmland.
- Led the team to simplify the Contingent Valuation Method and build mathematical modeling to evaluate the negative externalities of used batteries pollution.

ADDITIONAL SKILLS

Technical Skills: Python, Java, C, C++, Unix, Verilog