

**Jin Li**  
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## EDUCATION

### The University of Chicago

*Bachelor of Science in Computer Science and Math*  
Major GPA: 3.75

Chicago, IL  
Expected, June 2022

## EXPERIENCE

### Toyota Technological Institute at Chicago

*Deep Learning Research Assistant*

Chicago, IL  
Aug. 2019 – Present

- Single-handedly rewrote and refactored 18,000 lines of deep learning legacy code to use TensorFlow
- Ensured correctness of code by writing over 1,500 test cases and assertions and rewriting old documentations
- Saved months of wait time by decreasing training time by over 45% and GPU memory usage by 50% by optimizing inefficient code
- Improved performance of protein folding by 2% by building various deep neural architectures

### University of Chicago Medicine

*Machine Learning Research Assistant*

Chicago, IL  
Feb. 2019 – Present

- Improved the World Health Organization's vaccine targets by up to 81% by designing a novel machine learning framework
- Saved months of wait time by speeding up a bottleneck function by a factor of 37,200 through refactoring legacy code and parallelizing functions
- Increased cardiac arrest prediction by 31% by improving feature engineering and tuning deep neural networks
- Reduced classification error rates of HIV survivability by 18% and parameters by 66% by designing a novel type of neural network
- Created machine learning models for three research papers, one of which I was the lead author

### ShanghaiTech University

*Deep Learning Intern*

Shanghai, China  
Jun. 2019 – Aug. 2019

- Designed and implemented a novel deep learning algorithm that improved protein folding by 5% and decreased training time by 56%
- Sped up protein structure prediction by seven orders of magnitude faster than traditional folding methods
- Solo-authored a 11-page graduate-level research paper that was cited by researchers at Google

### Finch

*Software Engineer Intern*

Chicago, IL  
Feb. 2019 – Jun. 2019

- Built a website for a trading platform to improve the efficiency of financial transactions
- Used machine learning and natural language processing to extract important data from financial documents
- Communicated designs and optimizations to improve efficiency and user experiences of the trading platform

## LEADERSHIP & ACTIVITIES

### Machine Learning Community

*Founder and President*

Chicago, IL  
Jun. 2020 – Present

- Collaborating with the CS department to teach project-based machine learning
- Created and revised over 200 slides to simplify difficult machine learning concepts into digestible information
- Took lessons and practiced how to effectively communicate as a leader

## SKILLS

**Courses:** Computer Systems, Computer Architecture, Parallel Computing, Theory of Algorithms, Complexity Theory

**Software:** Python (Numpy, Pandas, TensorFlow, Pytorch, Scikit-Learn), C, R, Git, AWS, GCP