Jin Li

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 github.com/JinLi711

EDUCATION

B.S. Computer Science and Math
University of Chicago

10/2018 - 06/2022   *Major GPA: 3.75*

- Computer Systems, Computer Architecture, Parallel Computing,
  Theory of Algorithms, Complexity Theory

SKILLS

Python   TensorFlow   Scikit-Learn   Numpy   Pandas   Pytorch   C   R   Git   AWS   GCP

WORK EXPERIENCE

Deep Learning Research Assistant
Toyota Technological Institute at Chicago

08/2019 - Present   *Chicago*

- Single-handedly rewrote and refactored 18,000 lines of deep learning legacy code to use TensorFlow 2.0 and Python 3
- Improved performance of protein folding by 2% by reading hundreds of research papers and building different neural architectures
- Saved months of wait time by decreasing training time by over 45% and GPU memory usage by 50% through optimizing inefficient code
- Ensured correctness of code by writing over 1,500 test cases and assertions and rewriting old documentations

Machine Learning Research Assistant
University of Chicago Medicine

02/2019 - Present   *Chicago*

- Improved the World Health Organization's vaccine targets for viruses 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 from 0.71 AUC to 0.93 AUC 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 that are about to be published, one of which I was the lead author

Deep Learning Intern
ShanghaiTech University

06/2019 - 08/2019   *Shanghai*

- 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 by using my algorithm
- Solo-authored an 11 page research paper that was cited by researchers at Google and DeepMind
- Open sourced my code and collaborated with graduate researchers who used my algorithm to predict and analyze proteins

Software Engineer Intern
Finch

02/2019 - 06/2019   *Chicago*

- 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 various designs and optimizations to improve efficiency and user experiences of the trading platform

Research Assistant
University of Chicago

10/2018 - 02/2019   *Chicago*

- Built deep neural networks to measure styles, moods, and emotions of Chicago artworks
- Built A.I. language models to understand how Yelp data can provide insight to how popular culture is changing over time