

# Jason Wang

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## EDUCATION

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**Harvard University** Cambridge, MA  
A.B. in Computer Science and Mathematics GPA 3.98/4.00 John Harvard Scholar (Top 5%) May 2025  
Coursework (\* Graduate Level): Data Structures & Algorithms, Systems Programming, Theoretical CS, Probability, Inference, Unsupervised Learning, Reinforcement Learning, Linear Algebra, Complex Analysis, Supervised Research in AI, Deep Learning\*, MIT Deep Learning\*, Interpretable ML\*, Data Science\*, Advanced Natural Language Processing\*

**Thomas Jefferson High School for Science and Technology** Alexandria, VA  
US Presidential Scholar Regeneron STS Scholar GPA: 4.58/4.00 SAT: 1600/1600 June 2021

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## TECHNICAL SKILLS

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**Programming:** Python, C++, Java, JavaScript, MATLAB, Julia, R, SQL, Git  
**Machine Learning:** PyTorch, TensorFlow, JAX, Multi-GPU Training, Transformers, OpenCV, sklearn, pandas  
**Web Development:** React, Flask, AWS, MongoDB, Firebase, Dash, Tailwind, HTML/CSS

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## EXPERIENCE

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**Harvard SAFR ML Lab** Cambridge, MA  
Student Researcher March 2023-Present

- Trained 12B parameter large language models with distributed multi-GPU computing units on AWS
- Invented novel adversarial attack for training data extraction that outperforms state-of-the-art by up to 10%

**MITRE** McLean, VA  
Data Science Intern May 2023-August 2023

- Designed ML algorithms for national security of critical infrastructure, developed data visualization app using Dash
- Reverse-engineered software using Ghidra, upskilling on embedded security and drone development

**Orchard Robotics** Ithaca, NY  
Software Engineer Intern June 2022-August 2022

- Engineered full-stack data analytics pipeline from scratch with AWS and MongoDB, handled >15 TB of data
- Trained Mask R-CNN variants for machine vision in farm robotics with SageMaker
- Implemented and fine-tuned stereo depth estimation using OpenCV
- Created 3D geospatial visualizations of >150 acres of orchards with drone imagery using React and Mapbox

**ThinkCERCA** Chicago, IL  
Automated Assistance Data Scientist January 2022-May 2022

- Developed AI essay grader using large language models with PyTorch and Transformers, achieving 80% accuracy

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## LEADERSHIP

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**Harvard Undergraduate Machine Intelligence Community** Cambridge, MA  
Co-President September 2021-Present

- Taught over 100 Harvard students deep learning, inaugurating an annual semester-long crash course (22 sessions)
- Founded an AI Project Incubator hosting 9 project groups; accelerated 2 student research projects

**Conflux Art Tech: Musical Chairs** Cambridge, MA  
Software Lead September 2022-May 2023

- Innovated real-time audio feature extraction using OpenAI Whisper to compose generative music for arts festival

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## PUBLICATIONS

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- M. Li\*, **J. Wang\***, J. Wang\*, S. Neel, "[Model Perturbation based Privacy Attacks on Language Models](#)", *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP-23, NeurIPS SoLaR-23)*.
- L. Tang, A. Cai, S. Li, **J. Wang**, "[The Naughtyformer: A Transformer Understands Offensive Humor](#)", *Proceedings of the Thirty-seventh AAAI Conference on Artificial Intelligence (AAAI-23)*.
- **J. Wang**, K. Fu, Z. Chen, C.T. Lu, "[Augmentation of Chinese Character Representations with Compositional Graph Learning](#)," *Proceedings of the Thirty-sixth AAAI Conference on Artificial Intelligence (AAAI-22)*.
- **J. Wang**, K. Fu, C.T. Lu, "[SOSNet: A Graph Convolutional Network Approach to Fine-Grained Cyberbullying Detection](#)," *Proceedings of the 2020 IEEE International Conference on Big Data (IEEE BigData 2020)*.