

Jay Zheng

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Education

Cornell University, Ithaca, NY Graduating May 2026
B.S. in Biometry and Statistics

Cornell Tech, Certificate in Machine Learning Foundations, *Grade 99%* August 2024

Mt. San Antonio College, Walnut, CA June 2024
A.S. Mathematics | 4.0 GPA

Awards: Student of Distinction, Mathematics & Computer Science Scholarship, Edison STEM Scholarship, Honors Scholar, President's List

Professional Experience

Geothara New York, NY
AI Studio Fellow August 2024 – December 2024

- Currently engaged in a project that aims build a model to predict the shape, flow velocity, and depth of rivers from anywhere in the world to manage climate risk.

Projects

“ChatGPT Inside Out”, research project August 2023 - May 2024

- Gained understanding of the Transformer Architecture through reading technical paper “Attention is all you need”. Implemented a transformer based model using PyTorch and a classical Shakespearean text dataset by following Andrej Karpathy’s tutorial, where I focused on tuning the hyperparameter to a balanced training and validation loss to avoid gibberish word output and high similarities to input. I also explored the concept of Low-Ranked Adaptation of LLMs.

Leadership

Break Through Tech, *Fellow* May 2023 - Present

- Participant in 12-month long program include **Machine Learning coursework** with Cornell faculty, experiential learning, **mentorship from industry professionals**, and career development events.

Alpha Gamma Sigma, *President* September 2022 – June 2023

- **Revitalized** Honor Society, tripled membership and **secured third place** in a campus-wide event by enhancing **community engagement**.

United States Marine Corps, *Squad Leader, ASVAB Tutor* January 2022 – January 2023

- **Led** a squad of 15, fostered teamwork and discipline, resulting in **improved operational readiness**.

Skills

- Languages: C++, Java, Python
- Tools & Frameworks: Matplotlib, Pandas, NumPy, Scikit-Learn
- Relevant Coursework: Data structures and Algorithm, Discrete Math, Linear Algebra