**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