

Jason Zhao

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Education:

University of Washington – Computer Science | CSE GPA 3.83/4.0

2023 - Expected 2027

Bellevue College – Transfer Program | GPA 3.92/4.0

2022 - 2023

Research Experience:

Reward Model for Physical Realism: – UW Raivn

February 2026- Current

- Mentored by Chenhao Zheng, Jason Ren, Jingwei Ma, and Prof. Ranjay Krishna

GarmentZoom: – UW RealityLab

June 2025- March 2026

- Mentored by Jingwei Ma, Prof. Stevens Seitz, Prof. Ira Kemelmacher-Shlizerman, Prof. Brian Curless
- Extreme scale reference based super resolution to upscale product images by 3-20x scale using Flux backbone

File System for ZNS SSD Devices – UW Systems Lab

January 2025- June 2025

- Mentored by Dedong Xie and Prof. Simon Peter
- ZNS SSD devices present an interface where only sequential writes in each zone are allowed, and each zone must be cleared as a whole piece
 - The interface allows finer control on garbage collection
- Investigated and modified existing file systems to implement a victim selection strategy with respect to load and power limits

Side Projects:

SiriTok – CSE 493G

- A semantically rich, one-dimensional image encoder that encodes a 256*256 image to 64 vectors, aim to speed up both training and inference efficiency of diffusion
- Introducing two novel semantic preservation losses to fine-tune a DINOv3 backbone into 1D image encoding task
 - Reconstruction rFID: 7.03
 - Top 1 linear probing accuracy on ImageNet: 79.01%
- Poster at: https://homes.cs.washington.edu/~renjiz2/projects/siritok/siritok_poster.pdf

ML-TOMB – CSE 599O

- A customized CUDA kernel for efficient multi-LoRA training and inference with one backbone base model
- Achieves up to 200% speedup on training and 400% speedup on inference
- Report at: https://homes.cs.washington.edu/~renjiz2/projects/ml_tomb/ml_tomb.pdf