

# Alysa Zhao

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## EDUCATION

<b>Texas A&amp;M University</b> <i>B.S. Computer Science</i> President's Endowed Scholar, National Merit Scholar	College Station, TX <i>May 2028</i>
<b>Relevant Coursework:</b> Data Structures & Algorithms, Program Design & Concepts (C++), Multivariable Calculus, Differential Equations, Discrete Math, Linear Algebra, Introduction to Programming (Python)	

## TECHNICAL SKILLS

**Languages:** C++, Python, Java, JavaScript, Typescript, HTML/CSS, SQL  
**Technologies:** Git, Github, Docker, Node.js, JupyterLab, Tensorflow, Keras, Scikit-learn, Pandas, Excel, VS Code

## EXPERIENCE

<b>ENGR-102 PT</b> <i>Texas A&amp;M University</i>	Aug 2025 – Present <i>Plano, TX</i>
• Choreographed and taught hip-hop, jazz, and contemporary dance routines to young students for 50 hrs/week • Worked with a clothing manufacturer to design award-winning costumes for national dance competitions	
<b>AI Research Intern</b> <i>University of Texas at Dallas</i>	June 2025 – Present <i>Dallas, TX</i>
• Researched Low-Rank Adaptation (LoRA) to improve fine-tuning efficiency of large-scale transformer models. • Analyzed trade-offs between rank adaptation, memory efficiency, and task performance to inform design choices. • Rapidly self-learned advanced model optimization techniques, like LoRA for fine-tuning, PPO & GRPO for reinforcement learning, and attention mechanisms	

## PROJECTS

<b>Miso Hungry</b>   <i>Python, Scikit-learn, HTML, Javascript</i>	2025
• Developed an ML-powered web app to recommend Asian cuisines based on ingredients in users' pantries • Trained various models, achieving a 86% cuisine accuracy w/ RFST and 84% w/ SVC from 380 ingredients • Visualized model architectures and performance metrics using Netron and Matplotlib to guide improvements	
<b>Electricity Demand Forecaster</b>   <i>Python, Scikit-learn</i>	2024
• Predicted future hourly electricity demand with machine learning and regression modeling, using historical energy demand, average precipitation, and time-based features • Performed data preprocessing, EDA, and feature engineering on a dataset of 14000+ rows • Implemented and optimized LSTM models, and visualized patterns with seaborn graphs	
<b>Dungeon Crawler</b>   <i>C++</i>	2024
• Game-ified file I/O with user-input for players to combat monsters and solve puzzles. • Constructed player interaction systems which changed map features in real time • Added difficulty adjustment mechanisms using player performance data to dynamically scale game challenges.	
<b>Two Player Arcade</b>   <i>Java</i>	2024
• Coded an interactive web applet with snake and brick breaker levels, for two players to play simultaneously. • Developed back-end technology and front-end user-movement based animation using Java AWT and Swing, and event listener GUI	

## AWARDS & CERTIFICATIONS

- National Merit Scholarship (Top 0.02 % of Graduating Class)
- DeepLearning.AI – Advanced Learning Algorithms
- DeepLearning.AI – Supervised Machine Learning: Regression & Classification