

Alysa Zhao

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EDUCATION

Texas A&M University <i>B.S. Computer Science, Math Minor</i> Honors: President's Endowed Scholar, National Merit Scholar Relevant Coursework: Data Structures & Algorithms, Discrete Math, Programming Design & Concepts (C++)	College Station, TX Expected May 2027
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TECHNICAL SKILLS

Languages: C++, Python, Java, Typescript, JavaScript, SQL, HTML, CSS, R Developer Tools: Git, Node.js, Vite, Supabase/PostgreSQL, Docker, Visual Studio Code, JupyterLab, Excel Frameworks & Libraries: React, Next.js, Express, Tailwind CSS, Three.js, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn Certificates: DeepLearning.AI – Advanced Learning Algorithms, Supervised Machine Learning
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EXPERIENCE

Teacher Assistant <i>Texas A&M University</i> <ul style="list-style-type: none">Mentored 90+ students for ENGR 102 in Python, increasing assignment completion rate and exam gradesReinforced OOP and system design fundamentals, resolving 200+ code issues on siteManaged Excel-based tracking systems to streamline assignments and improve team efficiency	Aug 2025 – Present College Station, TX
AI Research Intern <i>University of Texas at Dallas</i> <ul style="list-style-type: none">Rapidly self-learned PPO, GRPO, and attention mechanisms, improving model training speed & efficiencyAnalyzed reward conflicts in rule-based RL, reducing inconsistencies and enhancing task accuracy	June 2025 – Present Richardson, TX

PROJECTS

Launch Pad <i>Next.js, TypeScript, Three.js - Best Student Life Hack @ HowdyHack</i>	Oct 2025
<ul style="list-style-type: none">Developed learning app using Google's Gemini API to parse resumes, analyze skill gaps, and generate roadmapsIntegrated Jina REST API & LLM pipeline to scrape URLs and produce structured JSON for visualizationAutomated ICS export for recurring study events with dynamic scheduling and fully configurable preferences	
Cartfish <i>Express, React, TypeScript, Supabase</i>	Sep 2025
<ul style="list-style-type: none">Engineered full-stack grocery savings app integrating Kroger API across 2,800+ stores with session persistenceDesigned PostgreSQL schema with indexed foreign keys and 7-day TTL cache to minimize external API dependencyArchitected OAuth 2.0 singleton preventing token race conditions with preemptive refresh across 7 RESTful endpoints.	
Miso Hungry! <i>Scikit-learn, Python, Jupyter Notebook</i>	July 2025
<ul style="list-style-type: none">Built an ML-powered web app with Javascript & HTML to recommend Asian cuisines based on pantry ingredientsTrained Scikit-learn models (RFST: 86% accuracy) on 380+ ingredients, improving recommendation precisionVisualized model architectures and performance metrics using Netron and Matplotlib to drive improvements	
ArcaDOS <i>Java</i>	May 2024
<ul style="list-style-type: none">Coded a two-player interactive web applet with snake and brick breaker levels in Java.Developed back-end technology and front-end user-movement-based animation using Java AWT and Swing, and event listener GUI	

LEADERSHIP & AWARDS

- * HowdyHack 2025 – **Best Student Life Hack**
- * Aggie Competitive Programming Club – **Web & Outreach Officer**
- * TACS (Texas A&M Association of Computing Machinery) – **Design Officer**
- * National Merit Scholar – Top 0.02 % of Graduating Class
- * 3x President's Volunteer Service Award – 500+ Service Hours
- * 2nd Place Team, 2023 Computer Science UIL
- * Congressional Art Competition, 2nd prize
- * 2nd Prize, Sustainable Materials and Design, Dallas Regional Science and Engineering Fair