Adrian Tran

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Education

The University of Texas at Dallas **Aug 2023 – May 2026**

B.S. in Computer Science GPA: 3.8 / 4.0

Technical Skills

Languages: Java, Python, C++, JavaScript, TypeScript, HTML, CSS, C
Frameworks and Technologies: React, NextJS, Figma, Git, GitHub, Kanban

Projects

TalentTrade - *ACM Projects* **Aug 2024 – Nov 2024**

- Produced a web app in a team of 4 that serves as an online learning community where university students can exchange knowledge and skills through direct messaging and virtual peer-to-peer lessons
- Spearheaded front-end design and developed overarching aesthetic of the web app using Figma, and implemented fully responsive, animated pages using HTML and CSS
- Utilized React state management and JavaScript to integrate Google Sign-In API and Zoom API with front-end and back-end functionality
- Showcased product with a detailed end-of-term presentation to 5 industry judges, faculty, and other students

EarnNest - *HackUTD 2024: Ripple Effect* **Nov 2024**

- Led front-end development in a team of 4, building a website in 24 hours that provides banking services to underbanked communities, implementing Llama AI and Google Cloud OCR to facilitate personalized financial advising
- Created and applied cohesive design system across entire website using Figma, HTML, and CSS, enhancing user experience with intuitive interfaces and a polished aesthetic
- Integrated core functionality and web app flow, including user authentication, Google Cloud OCR, and Llama AI using React and JavaScript
- Presented to over 10 industry professionals, earning recognition for front-end design while competing against nearly 280 other teams

AeroVista - *ACM Research* **Mar 2024 – May 2024**

- Collaborated in a team of 6 to research the strengths and weaknesses of Mask R-CNN and RTMDet object detection models for improving efficiency in search-and-rescue missions
- Engineered Tello drones to collect over 100 images for training data, leveraging DJITelloPy for precise drone control and OpenCV for image processing, manually annotating the dataset using the Voxel51 annotation API
- Analyzed and presented findings with a detailed report and symposium presentation to an audience of over 100 students and industry professionals, winning most popular project vote from attendees

Dancing Drones - *Beaver Works Summer Institute* **Jul 2022 – Aug 2022**

- Developed image recognition algorithms in Tello drones using Numpy, OpenCV, and DJITelloPy
- Programmed Python scripts to interface drone motion control and sensor feedback using ROS libraries, enabling smooth and responsive wireless control
- Designed and implemented a novel system that utilizes librosa to preprocess 3+ minute audio in <0.5 seconds and detect musical patterns, enabling Tello drones to generate procedurally choreographed dance routines
- Contributed to a team of 4 to showcase a demo of the autonomously dancing drones at the end of the program, achieving 1st place honors from the judges

Awards

ACM Research People's Choice Award **May 2024**
National Merit Scholarship Recipient **Mar 2023**
Beaver Works Summer Institute UAV Final Project 1st Place **Aug 2022**