

Brandon Yuan

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Science

Honors Student @ College of Engineering

College Station, TX

May 2026

Cumulative GPA: 4.00/4.00

WORK EXPERIENCE

Texas A&M Department of Construction

Research Assistant

College Station, TX

August 2024 – Present

- Developed and deployed a supervised machine learning model to predict employee absenteeism, leveraging data from construction firms, traffic, weather APIs, and news sources
- Led feature engineering including sentiment analysis and name entity recognition on qualitative data.
- Collaborated with a professor and 3 students, reporting/publishing model insights via the Aggie Research Program.

Notes with Canvas

Project Manager

College Station, TX

September 2023 - May 2024

- Coordinated a 15-member team through 9 Agile sprints, to build a task-management web application, featuring integration with Canvas (Texas A&M's primary learning management system) to streamline academic workflows
- Used React.js and Bootstrap for the frontend interface and developed a Flask server to output a .JSON file from users' Canvas data as the backend. Integrated the server w/ Axios and then hosted the application on Firebase
- Awarded "Best Learning-Focused Project" out of 36 Aggie Coding Club projects

Group Dynamics Research Study

Research Collaborator

College Station, TX

September 2023

- Selected for a Texas A&M research study on group dynamics and collaboration among students solving LeetCode problems, which analyzed team interaction, problem-solving efficiency, and group performance.

PROJECTS

Red Dead Convolution

Data Scientist

College Station, TX

September 2023 - December 2023

- Developed an image classification model trained on the video game *Red Dead Redemption II*, achieving 87% detection accuracy
- Collaborated with a team of 30+ members to train the neural network using a dataset of 500+ in-game screenshots
- Leveraged TensorFlow and PyTorch for model training, NumPy for numerical computations, and OpenCV for image preprocessing and data augmentation, improving overall model performance.

TAMUhack X

Participant

College Station, TX

January 2024

- Created a financial goal-tracking web app using React.js and AWS, allowing users to set and track personal savings goals in real-time.
- Gained valuable feedback from corporations like American Airlines, PIMCO, and Sandia Labs and revised accordingly

Chess Mobile App

Android Developer

Austin, TX

January 2023 – May 2023

- Developed a fully functional chess application using Xamarin.Forms and .NET, incorporating a SQLite engine for settings management and game data storage.
- Collaborated with 2 developers to complete the project under a 3-month timeline via 6 Scrum sprints, handling key features like multiplayer mode and AI opponent.

SKILLS, ACTIVITIES & INTERESTS

Areas of Focus: Web Development, Convolutional Neural Networks, Data Analysis, Deep Learning

Relevant Courses: Data Structures & Algorithms, Discrete Mathematics, Calculus III, Stanford Machine Learning (CS 229)

Technical Skills: Java, Python, C#, C++, JavaScript/TypeScript, HTML & CSS, React.js, Flask, PyTorch

Activities: STEM to Stocks Club, Texas A&M Computing Society, Aggie Coding Club

Interests: Cooking, Basketball, Classical Piano & Trumpet