

Brandon Yuan

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EDUCATION

Texas A&M University

Expected May 2027

Bachelor of Science in Computer Science

GPA: 3.77/4.00

- **Honors:** Craig and Galen Brown Engineering Honors, Dean's Honor Roll
- **Coursework:** Data Structures & Algorithms, Machine Learning, Cloud Computing, Computer Systems

EXPERIENCE

IBM

Aug 2026 – Dec 2026

Software Engineer Intern

- Incoming Fall 2026

AT&T

Jun 2026 – Aug 2026

Software Engineer Intern

- Incoming Summer 2026

DigiCert

May 2025 – Aug 2025

Software Engineer Intern

- Built Flask microservices automating image verification & signing with C2PA, maintaining <500ms response times
- Designed manifest signing pipeline with validation, hashing, PS256 timestamps, and COSE signature embeddings
- Deployed WordPress plugin authorizing 100+ vendors to sign images, surfacing image provenance & metadata

Aggie Coding Club

Mar 2025 – Present

Projects Chair

- Mentored PMs from 20+ active projects via workshops & check-ins, achieving 85% project completion rate
- Automated workflows with Python scripts, assigning 200+ students to projects & creating Discord channels

Texas A&M University

Aug 2024 – May 2025

Undergraduate Research Assistant

- Trained multiple ML models to predict employee absenteeism in construction workforces, achieving R^2 of 0.82
- Built unified time-series schema from 8 companies, reducing ETL runtime by 50% across 4.9 million hours of data
- Led feature engineering for commute time & weather with historical data, boosting model performance by 4%

PROJECTS

Rerouted | *Next.js, React Native, FastAPI, Ray, Pydantic, AWS Lambda, Socket.io*

- Engineered a crew assignment engine for flight disruptions, maximizing coverage while validating FAA regulations
- Parallelized an optimization pipeline on AWS to evaluate 80,000+ scenarios across 600+ flights in <10s
- Developed WebSocket infrastructure to support real-time flight maps & mobile app notifications for airline staff

Class2calendar | *React.js, Supabase, Prisma, Stripe, Google APIs, Turborepo*

- Built web extension to sync ICS feeds to Google Calendar & Tasks, won "Best Learning-Focused Project" in ACC
- Integrated Google OAuth 2.0 with local file parsing, event hashing, and storage to keep calendar data client-side

Periph4all | *Next.js, FastAPI, Docker, Groq, Sentence-Transformers, scikit-learn, Beautiful Soup*

- Built an AI chatbot to recommend gaming mice via semantic embeddings, placing 7th at TIDALHack2025
- Scraped & normalized pricing across retailers, filtering 1000+ mice to 175 products based on data availability
- Implemented 384-dimensional semantic search with UMAP visualizations, processing queries in <2 seconds

TECHNICAL SKILLS

Languages: Python, Java, C++, C#, TypeScript, JavaScript, Bash

Frameworks & Libraries: React, Next.js, Node.js, Express, FastAPI, PyTorch, OpenCV

Tools: Git, Linux, Docker, Kubernetes, Terraform, PostgreSQL, MongoDB, Supabase, AWS (EC2, S3, Lambda)