

Brandon Yuan

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EDUCATION

Texas A&M University <i>Bachelor of Science in Computer Science</i> <i>Engineering Honors Student</i>	College Station, TX Aug. 2023 – May 2027 GPA: 3.71/4.00
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EXPERIENCE

Product Development Intern <i>DigiCert</i>	May 2025 – Aug. 2025 Austin, TX
<ul style="list-style-type: none">Developed WordPress plugin for 100+ WooCommerce vendors, increasing purchase confidence via verified imagesAutomated C2PA credential embedding with cryptographic signing to show image provenance & authenticityEngineered Flask microservice integrating TOTP-based CSC APIs, maintaining sub-500ms response times at scaleCreated browser extension to verify C2PA credentials, expanding authentication ecosystem beyond WordPress	
ML Research Assistant <i>TAMU Dept. of Construction Science</i>	Aug. 2024 – Present College Station, TX
<ul style="list-style-type: none">Trained models (RF & kNN) to predict employee absenteeism in construction workforces, achieving R² of 0.82Analyzed 4.9 million hours of workforce data spanning 500+ employees across 8 companies over 5 yearsEngineered unified time-series schema across 3 disparate databases, reducing ETL pipeline runtime by 50%Led feature engineering for commute time & weather with historical data, boosting model performance by 4%	
Projects Officer & Manager <i>Aggie Coding Club</i>	Sep. 2023 – Present College Station, TX
<ul style="list-style-type: none">Managed 20+ active projects with 200+ students, automated project assignment & Discord communicationEstablished PM training program (30+ PMs), achieved 85% project completion rate through guided mentorshipLed two software projects (Canvas2calendar, Spotify VibeMap), coordinating 15+ developers across teams	

PROJECTS

Periph4all <i>Next, FastAPI, Groq, SentenceTransformers, scikit-learn</i>	
<ul style="list-style-type: none">Built AI-powered recommendation engine matching users to gaming mice via conversational preference extractionImplemented semantic search with 384-dimensional embeddings, processing 175+ products in <2 secondsCreated interactive UMAP & graph visualizations, enabling users to visually explore different products & clusters	
Canvas2calendar <i>React, Express, PostgreSQL, Prisma, Google Cloud APIs</i>	
<ul style="list-style-type: none">Won “Best Learning-Focused Project” among 36 other projects in Aggie Coding ClubEngineered web extension enabling custom parsing & filtering of Canvas ICS feeds to sync with Google TasksDetected changes via hash-based differential sync, reduced Google API calls by 90%, maintained <5s refresh times	
Spotify VibeMap <i>React, react-force-graph, node2vec, NetworkX, scikit-learn, Flask, Spotify API</i>	
<ul style="list-style-type: none">Built website analyzing Spotify listening data to generate song recommendations shown via interactive 3D graphImplemented graph traversal pipeline to process 200+ song networks with 10 random walks in under 3 minutesGenerated 4-5 novel recommendations per query through a graph-based model using vector embeddings	

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C#, TypeScript, JavaScript, Bash
Frameworks & Libraries: React, Node, Express, Next, Flask, PostgreSQL, FastAPI, MongoDB, AWS (EC2, Lambda)
Developer Tools: Git, Linux, Postman, Jira, Docker, Kubernetes, Vercel, Render, Hugging Face Spaces
Concepts: Full-stack Development, Frontend Development, Backend Development, DevOps, CI/CD, Machine Learning, Data Visualization, Microservices, Agile, Cybersecurity, Cloud Computing, Databases, Data Structures & Algorithms