

# Brandon Yuan

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## EDUCATION

<b>Texas A&amp;M University</b> <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

<b>Product Development Intern</b> <i>DigiCert</i>	May 2025 – Aug. 2025 Austin, TX
<ul style="list-style-type: none"><li>Developed WordPress plugin for 100+ WooCommerce vendors, increasing purchase confidence via verified images</li><li>Automated C2PA credential embedding with cryptographic signing to show image provenance &amp; authenticity</li><li>Engineered Flask microservice integrating TOTP-based CSC APIs, maintaining sub-500ms response times at scale</li><li>Created browser extension to verify C2PA credentials, expanding authentication ecosystem beyond WordPress</li></ul>	
<b>ML Research Assistant</b> <i>TAMU Dept. of Construction Science</i>	Aug. 2024 – May 2025 College Station, TX
<ul style="list-style-type: none"><li>Trained models (RF &amp; kNN) to predict employee absenteeism in construction workforces, achieving R<sup>2</sup> of 0.82</li><li>Analyzed 4.9 million hours of workforce data spanning 500+ employees across 8 companies over 5 years</li><li>Engineered unified time-series schema across 3 disparate databases, reducing ETL pipeline runtime by 50%</li><li>Led feature engineering for commute time &amp; weather with historical data, boosting model performance by 4%</li></ul>	
<b>Projects Officer &amp; Manager</b> <i>Aggie Coding Club</i>	Sep. 2023 – Present College Station, TX
<ul style="list-style-type: none"><li>Managed 20+ active projects with 200+ students, automated project assignment &amp; Discord communication</li><li>Established PM training program (30+ PMs), achieved 85% project completion rate through guided mentorship</li><li>Led two software projects (Canvas2calendar, Spotify VibeMap), coordinating 15+ developers across teams</li></ul>	

## PROJECTS

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

## TECHNICAL SKILLS

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