

Daniel Trinh

Sugar Land, TX | (832) 971 – 1497 | danielbaowen@gmail.com

EDUCATION

Texas A&M University <i>Bachelor of Computer Science Computer Science Honors Mathematics Minor</i>	College Station, TX May 2026 GPA: 3.79
--	--

PROFESSIONAL EXPERIENCE

Texas Department of Transportation <i>Machine Learning Researcher</i> <ul style="list-style-type: none">Collaborating with TxDOT on AI-driven models to optimize construction planning, focusing on cost control.Conducted data preprocessing, collaborative filtering, and multi-instance learning to enhance model accuracy.Utilized SQL for data management and built predictive models to identify risk factors in project timelines.Developed a web interface to visualize model outcomes, supporting decision-making for construction projects.	College Station, TX Aug. 2024 – Present
Aggie Research Scholars Program <i>Machine Learning and Software Developer</i> <ul style="list-style-type: none">Preprocessed and cleaned economic data to support accurate forecasting across the beef production value chain.Achieved 94% accuracy with regression models predicting economic performance metrics.	College Station, TX Aug. 2024 – Nov. 2024
Smart Financial Credit Union <i>Extern</i> <ul style="list-style-type: none">Gained exposure to .NET, C#, and Blazor; understood basic applications of these technologies within financial software contexts and participated in collaborative software development discussions.Enhanced communication and leadership skills through active participation in business operations meetings.	Sugar Land, TX May 2023 – Aug. 2023
University of Texas at Dallas Internship <i>Business and Data Analytics Intern</i> <ul style="list-style-type: none">Employed SQL for data manipulation, contributing to preliminary modeling of corporate financial outcomes and supporting strategic decision-making processes.Collaborated with cross-functional teams to align data analytics initiatives with business goals, enhancing operational insights and reporting efficiency.	Remote May 2022 – August 2022

LEADERSHIP & ACTIVITIES

TIDAL: AI and Data Science <i>Officer of Outreach and Workshop</i> <ul style="list-style-type: none">Enhanced club engagement through organizing workshops, hackathons and securing sponsorships, handling relations with AWS, NVIDIA, and other partners; led initiatives to share machine learning knowledge and foster collaboration among members.	College Station, TX Jan 2024 – Present
Project Lead, Aggie Coding Club <i>GroupMeet, Full Stack Project</i> <ul style="list-style-type: none">Led development of a study scheduler platform inspired by When2Meet, integrating Google Calendar, Notion, and other APIs to manage study sessions with enhanced privacy controls.Managing development with Trello, and utilizing Express.js, PostgreSQL, React.js, and GraphQL to establish project foundations and ensure seamless integration of user data.	College Station, TX Aug. 2024 – Present
Project Manager, Aggie Data Science Club <i>TAMUSentiment, Sentiment Analysis and NLP Project</i> <ul style="list-style-type: none">Led development of an end-to-end platform for web scraping, NLP-driven sentiment analysis, and event detection.Coordinating data collection, preprocessing, and clustering of large-scale social media datasets using TF-IDF, BERT embeddings, and DBSCAN, ensuring data integrity and real-time classification.Leading a team of over 15 members, implementing spam filtering algorithms to enhance data relevance by 35%.	College Station, TX Aug. 2024 – Dec. 2024
Texas A&M Student Athlete, Powerlifting <i>Nationally Competitive Powerlifter</i> <ul style="list-style-type: none">Personally placed 2nd in the state of Texas representing Texas A&M, contributing to the school's ranking as one of the top 3 programs in the USDeveloped and executed goal-oriented strategies for competition preparation, emphasizing leadership, time management, and collaboration	College Station, TX Aug. 2024-Present

PROJECTS

Social Media Engagement Predictor <ul style="list-style-type: none">Developing an NLP model to predict social media engagement using machine learning, focusing on data preprocessing, feature engineering, and model optimization for large-scale data.	2023
QuantFrog: Earnings Call Prediction Tool <ul style="list-style-type: none">Collaborated on a machine learning application for earnings call predictions using sentiment analysis and LSTM models; implementing sentiment analysis model and webscraping	2023
WealthWise: Financial Literacy App	2023

- Built a mobile app with React Native to gamify financial literacy with a small team, focusing on user engagement, database management, and implementing secure user authentication protocols.
- Table Tennis RAG Program**

2024
- Engineered a computer vision pipeline for professional ping pong analysis using Depth Anything, YOLOv8, and custom data filtering to achieve HPC-optimized performance under limited computational resources.
 - Implemented a Retrieval-Augmented Generation (RAG) LLM chatbot for real-time strategy advice, leveraging OpenCV, Open3D, and API calls to produce 3D point clouds—facilitating in-depth gameplay analysis
- The Odin Project: Full-Stack Web Development**

2024 - Current
- Completing comprehensive coursework on HTML, CSS, JavaScript, and Git; developing practical full-stack web applications with a focus on responsive design and version control

SKILLS & COURSEWORK

PROFICIENT IN: C++, Java, Python, HTML, CSS, JavaScript, React, Haskell, PyTorch, Git, Numpy, Matplotlib, R.
Working experience in SQL, Firebase, PostgreSQL, SpringBoot, GraphQL, TensorFlow, Pandas, Node.js.
COURSEWORK: Programming, Data Structures and Algorithms, Statistics, Linear Algebra, Calculus III, Machine Learning, Design and Analysis of Algorithms, Data Science, Computer Organization, Programming Languages. **CURRENT:** Computer Systems, Software Engineering, Problem Solving Programming Strategies, Mathematical Probability.