MANN BELLANI

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EDUCATION

Texas A&M University | College Station, TX **December 2028**
Bachelor of Science in Computer Science, GPA: 3.5
Campus Involvement: *ACM Chapter Officer, Aggie Data Science, Aggie Competitive Programming,*

TECHNICAL SKILLS

Technical Skills: *Proficient in SwiftUI, Data Structures & Algorithms, SQL, Java, C++, Python, TensorFlow, Jupyter Notebook, Git, Object Oriented Programming. Familiar with R, Wolfram, JavaScript, Node.js, CSS, HTML.*

EXPERIENCE

ORGanize Campus, Founder/CEO **December 2025 - present**
Software Engineer

- Built and launched a **full-stack** student org discovery platform (Next.js, TypeScript, Supabase/Postgres) **used by 500+ Texas A&M students**, with AI-powered matching via weighted semantic search
- Designed a **two-sided architecture** using Next.js API routes and a Python Flask microservice, implementing relevance scoring with real-time Supabase subscriptions
- Created org management tools including a **customizable application system**, applicant ranking/status tracking, and real-time updates, **supporting hundreds of student applications per org**

Southwest Airlines, Aggie Data Science Club **October 2025 - December 2025**
Student Data Scientist

- Built a **0–100 Weather Risk Score** using historical **BTS and Meteostat data** (2015–2025) to quantify weather-driven delay and cancellation risk for Southwest Airlines operations.
- Trained and evaluated multiple **ML models** (LightGBM, Neural Network, Logistic Regression) with techniques like **SMOTE, early stopping, and hyperparameter tuning**.
- Presented insights to **stakeholders** on measuring weather and disruption risks.

Independent Study & Mentorship, Wakeland HS **August 2023 - April 2025**
ISM II Student

- *Designed and trained **CNNs** for image classification with **augmentation and dropout** to improve accuracy. **~95%.***
- *Built a **Flask-based ML app** integrating CNN models for **real-time inferenc**e.*
- *Engineered a Sindhi-to-English translation pipeline with **RNNs, boosting BLEU scores** via **hyperparameter** tuning.*
- *Built end-to-end system with **custom tokenization**, embeddings, and **seq2seq modeling** in **TensorFlow/PyTorch**.*
- *Led a live AI workshop for **60+ participants**, guiding Python/Jupyter setup and **hands-on ML model building**.*

FRC Robotics, Frisco, TX **August 2022 - June 2025**
Mechanical Lead & Computer Vision Developer

- Led **15-member** mechanical subteam, **driving** subsystem integration, rapid prototyping, and iterative testing.
- Developed an **AprilTag computer vision pipeline** for autonomous **pathfinding** and real-time robot localization.
- Engineered shooter, parallel linkage claw, and Swerve Drive subsystems, applying kinematic optimization and control systems integration.

PROJECTS

- ***FallGuy** – Built a privacy-preserving BLE mesh **fall-detection system** using real-time RSSI analytics and a TensorFlow LSTM (93% accuracy). Drove data engineering (multi-device acquisition, normalization, labeling) and made to edge-to-cloud architecture with automated discovery and resilient peer-to-peer streaming for IoT healthcare deployment.*
- ***Alertify** – iOS **school safety app** in UIKit integrating Core Location, Push Notifications, Firebase Authentication/Firestore for secure user data storage, and Twilio API to send real-time distress alerts with live GPS coordinates to emergency contacts; implemented background location tracking and low-latency message dispatch.*

HONORS AND AWARDS

Honors/Awards: 1st Place TIDALHack, TAMUHack Winner, Engineering Honors @ TAMU, National Merit Scholar