Andre Athari

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Computer Science student with a strong passion for software engineering, coupled with a solid foundation in **data science and machine learning**. Skilled in both frontend and backend development, including **Java, Python, C++, React,** and **SQL.** Experienced in data visualization, machine learning, and **creating full-stack applications**.

EDUCATION

Texas A&M University – Bachelor of Science in Computer Science   *Fall 2023 - (Spring 2027)*
- Current GPA: 3.88 / 4.0
- Courses taken: DSA, Comp Org. (Arch.), Programming Languages, Discrete Math, Programming Design

RELEVANT COURSEWORK AND PROJECTS

Gallery Web App – Solo Project   *July 2024*

A full-stack website where users tag and upload their own photos to be added to a site-wide gallery which updates in real time. Users can tag their images with certain tags such as location and username, and all images go through a filtering process to ensure the images align with the guidelines.
- **React + Bootstrap** front end with custom image formatting and a clean + fast image masonry layout
- Optimized to allow multiple images loading / resizing upon load while still keeping the website fast
- **Python flask server** to manage user requests including image submission and image filtering
- **SQLite integration** to manage image uploads and to deal with image verification

Notes w/ Canvas – Aggie Coding Club Project Manager   *January 2023 - May 2023*

A companion app to Canvas that facilitates time management; offers an AI-powered calendar that leverages the Canvas API to create studying and homework schedules for students.
- Managed team of 10 fellow students and created project roadmap spanning throughout two semesters
- Led backend team dealing with DB management + cross-app communication with **MongoDB** implementation

AI Emotion Recognition Lecture Assistant – Build4Good Hackathon **Winner**   *March 2024*

An app that uses emotion recognition of students in a classroom to measure a teacher's engagement and then instructs the teacher on how to improve. Created as part of The Big Event to promote teacher-student involvement.
- **React Native** frontend with a **Python flask server** backend, tuned model for quick, accurate predictions while remaining lightweight

Smart Gradebook – Fall '23 tidalTAMU datathon **3rd Place Winner**   *November 2023*
- Data first visualized using **SHAP** and then hand-picked to tune model to reach **>95% accuracy**
- Developed robust front-end using **JavaScript** to facilitate interaction with model

ColorGuessr – Solo Project inspired by GeoGuessr   *July 2023 - January 2024*

Game where users guess the 'average color' of a daily-changing image. Published and **ran for 6 months with actual users**
- AWS-hosted game created in vanilla JS with **S3 bucket interaction**
- Only stopped running after 6 months due to insufficient funding

Routr – Project created for Spring '23 tidalTAMU datathon   *February 2024*

React Native app with a **Python backend** created to make traveling safer for truckers. Uses Google Maps API, OpenWeather API, and a custom ML model trained on historical US crash data to calculate safest route + time and avoid hazardous road conditions.

WORK EXPERIENCE

AIM COMPSCI –Founder   *September 2021 - August 2023*
- Instructed **100+ students** weekly in computer science fundamentals in Python and JavaScript
- Managed **20+ volunteers** and delegated tasks depending on respective roles

Tutor   *May 2020 - Present*
- Engaged one on one with students and focused on establishing an understanding of the material rather than memorization
- Communicated regularly with parents, offering feedback and updates on academic performance

SKILLS

Technical:
- Python | Java | C++ | React | SQL | AWS | JavaScript | R
- **Heavy AI/ML interest**, data visualization, exploring different models
- 4+ years of tutoring experience

Interest:
- 5 hours monthly commitment to community service
- Karate (5 years)
- Piano + Music Theory (13 years)
- Ping pong (champion of my garage)
- Fishing