Ayad Masud

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Education

Texas A&M University — College Station, TX
Bachelor of Science in Computer Science, Minor in Statistics: GPA: 3.88 — *Aug. 2023 – Present (Grad: 2027)*

Plano Senior High School — Plano, TX
GPA: 3.9/4.0 — *Aug. 2021 – May 2023*

Technical Skills

Languages: Python, C++, Java, R, JavaScript, HTML/CSS
Libraries: Matplotlib, OpenCV, NumPy, BeautifulSoup, pandas, Selenium, Tensorflow, Flask, Material-UI
Courses: Intro to Program Design, Data Structures and Algorithms, Linear Algebra, Discrete Math

Experience

TAMU RoboMasters Computer Vision Team — Sept. 2024 - Present
Team Member — *College Station, TX*

- Working in a team to develop computer vision capabilities, such as auto-aim, localization, and icon detection for RoboMasters competition
- Built computer vision algorithms to detect numbers on enemy armor plates with a **90%** accuracy rate.
- Optimized algorithm to compute classification for a frame in **30ms**, a **22%** decrease in computation time compared to previous method.

Headstarter AI — July 2024 – Sept. 2024
Fellow — *Plano, TX*

- Over the course of 7 weeks worked on 5 AI related projects in a team of 4 developers.
- Participated in Hiring Hackathon and placed top 20 among 500 teams.
- Used Flask, OpenAI, Stripe, Firebase, Clerk, and other technologies to develop full stack web projects.
- Received feedback from software engineers, improving code quality, project management, and communication skills

Aggie Research Scholar Program — Aug 2024 – Sept. 2024
Researcher — *College Station, TX*

- Under the guidance of PHD students, worked on insole gait analysis and fall prediction using sensor data.
- Cleaned and prepared data for analysis and fed to pose estimation models.
- Performed analysis along other team members to detect falls and analyze gait patterns of construction workers.

Projects

Ember | *Python, Flask, React, Plotly, OpenAI API, REST-API, Github* — Jan. 2025

- Worked in a team setting to develop a damage cost visualizer for the LA fires and mapped to an interactive map.
- Called API endpoints from government databases to retrieve data on fire damage to properties.
- Utlized OpenAI API to generate a more robust analysis of the data.
- Placed **2nd place** in ARM challenge at TAMUHack.

H.AI.R | *Python, Flask, Hugging Face, HTML, CSS, Vercel* — July 2024

- Developed a full-stack web app to recommend hair care products to users based on their hair type.
- Utilized Hugging Face models to classify hair types.
- Placed **top 20** in Headstarter Hiring Hackathon.

LLM Rate My Professor | *Google Gemini/PaLm API, Python, Selenium, Flask, HTML, CSS* — Dec. 2023

- Developed a full-stack web app to summarize Rate My Professor reviews.
- Utilized Selenium to scrape all reviews for a given professor.
- Leveraged Google's Gemini LLM model to summarize scraped reviews into coherent summaries.

Certifications

Machine Learning with Python: Coursera May 2024
Introduction to Generative AI: Google June 2024
Introduction to R: DataCamp August 2024