

Aadit Shah

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EDUCATION

Texas A&M University, College Station

May 2026

B.S., Computer Science, Engineering Honors Program

GPA: 3.93

- **Coursework:** Data Structures, Computer Organization, Algorithms, Programming Languages & Applications, Linear Algebra, Discrete Mathematics, Program Design, Python Programming, Statistics

WORK EXPERIENCE

WorldLink US

May 2022 - Aug 2022

Hardware Engineering Intern

Frisco, TX

- Directed sales of hardware including MacBooks and SATA hard drives with company vendors, netting \$6k+ profit.
- Wrote reports regarding RAID across cloud infrastructure for data storage, utilized through Office 365 and ADP.
- Deployed 35 Windows machines for employee usage, enhancing performance through increasingly efficient systems.

PROJECTS

GitaChat | *FastAPI, React, Next.js, Typescript, Python, Tailwind CSS*

- Created a **full-stack app** using FastAPI and React to output solutions to queries based on the Bhagavad Gita.
- Generated an **embedded search model** using sentence-transformers and cosine similarity, implemented web scraping for verse data, and translated data using Rest APIs to enable accurate verse retrieval and summarized commentary.
- Engineered a frontend web interface leveraging TypeScript and Tailwind CSS for cross-platform functionality.

Cardiovascular Disease Prediction | *Python, TensorFlow, Pandas, Scikit-Learn, NumPy, Keras*

- Built a **deep learning model** for predicting cardiovascular diseases generating **accuracy of 74.16%**.
- Applied hyperparameter tuning to **increase accuracy by 5%**, tested with 108 configurations of parameters.
- Constructed a preprocessing pipeline for medical data, including feature scaling to enhance predictions.

Fantasy Football Analyzer | *Python, NFL Next Gen Stats, Pandas, TensorFlow*

- Built a fantasy football program that predicts player potentials by analyzing historical player statistics.
- **Optimized player performance predictions by 25%** compared to open-source models through the application of modeling techniques such as random forest, linear regression, mutual information, and principal component analysis.

taskademic - TAMUhack 2024 | *React, JavaScript, TypeScript, SQL*

- Created a web application designed to alleviate the issues of course management systems by student collaboration.
- Utilized PostgreSQL for the database and React, JavaScript, and TypeScript to build the front-end interface.
- Delivered 4 technical demos to **75+ engineers** and saw **elevated interest by nearly 50%** from prior surveying.

ORGANIZATIONS

Student Engineers' Council

Feb 2024 - Present

Software Engineer

- Lead software engineer for in-house MERN stack website used for all organization-related activities and events.
- Implemented reviewing system to balance application assignments across users, **increasing efficiency by 25%**.

Society & Graduate Relations Chair

- Serve as the liaison for 90+ engineering student organizations and 4,500+ graduate engineering students, addressing their needs to the faculty of the College of Engineering to foster collaboration and drive meaningful improvements.
- Host events such as Graduate Student Career Fair & Presidents' Round Tables for networking and leadership.

SKILLS AND HONORS

Languages: Python, Java, C++, JavaScript, Bash, \LaTeX , HTML, CSS

Frameworks: React, Next.js, Node.js, Express, FastAPI, Flask, Tailwind CSS

Tools: MongoDB, AWS, PostgreSQL, Git, TensorFlow, Keras, Scikit-Learn, Pandas

Honors: Dean's Honor Roll (3x)