

ADITYA AGRAWAL

www.aditya-agrawal.me | adityaagr@utexas.edu | +1 (281) 624-9601

EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

August 2021 – May 2025

- **Major:** Bachelor of Science in Computer Science; **Minors:** Business, Entrepreneurship
- **Relevant Coursework:** Machine Learning, Information Retrieval, Data Structures

Austin, TX

TECHNICAL SKILLS

- **Proficient:** C, JavaScript, Python, Java, React, Vue 3, NodeJS, SQL, HTML5, CSS, C++
- **Intermediate:** PHP, Laravel, Flask, SvelteKit, Kotlin, Django, C#, ASP.NET, SCSS, Selenium, VBA, Excel

WORK EXPERIENCE

SPACEX – Application Software, *Software Engineering Intern*

January 2024 – Present

- Developing ML Analyzers to automate data reviews for launch and testing operations; directly increasing mission safety.

SPACEX – Recovery Operations, *Software Engineering Intern*

May 2023 – August 2023

- Trained a computer vision model to enable robot movements to reduce operator reliance during launch recovery operations.
- Recommended workflow optimizations based on analysis of mission turn operations, saving ~280 hours annually.
- Designed tooling to remove the forklift requirement from a contingency operation, resulting in savings of ~\$70,000 annually.
- Proposed utilization of winches based on wind load analysis to increase operational capabilities by ~25% during high winds.

ATMOSPHERE TV, *Software Developer Intern*

May - August 2022

- Spearheaded the creation of a customized component library utilizing Vue 3 and TailwindCSS, resulting in a consistent and efficient UI across Atmosphere's customer portals and other websites for 9000+ monthly active users.
- Implemented automated testing using StorybookJS, ensuring seamless integration and reducing development time.
- Migrated, replaced, and rewrote 10+ libraries utilized in the customer portal from Vue 2 to Vue 3 JavaScript framework.
- Owned implementation of two consumer interaction analytics tools for the customer portal using an in-house analytics API, Hotjar, BigQuery, Looker, and Google Optimize.

RADIX ENGINEERING AND SOFTWARE, *Software Engineering Intern*

July - August 2019

- Developed an invoice matching tool in Excel using VBA, and web admin portal using ASP.NET, C#, and SQL; resulting in \$52,000 of labor cost savings annually.

ENTREPRENUERSHIP

TALEMNA, *Co-Founder*

June - July 2022

- Created a mobile-first website utilizing React, TypeScript, and Firebase to connect tutors and students in Saudi Arabia.
- Followed the i18n standard to support both English and Arabic on the website to improve accessibility for all users.

FLOOD ALERT, *Founder*

February 2017 – May 2021

- Developed a [web application](#) using Bootstrap, Firebase, and Google Maps to help people navigate through the safest route in flooded zones by crowdsourcing information.
- Invented a flood sensor to collect real-time and location-specific water level measurements with integration to the web application. Used C++ and the REST API to develop and connect this sensor to the database.

SPEEDELIVERY, *Co-Founder, Lead Web Developer*

March 2020 – May 2020

- Founded a zero-cost grocery delivery service and programmed a [website](#) for at risk-individuals.

LEADERSHIP

Freetail Hackers, *Internal VP, Merge Project Lead, Events/Experience Member* February 2022 – December 2023

- Led and planned 4 hackathons, reaching 2,000+ hackers, including HackTX - one of the biggest hackathons in the state.
- Raised \$20,000+ for HackTX 2023, while leading the club as Internal VP and managing 20 people across 3 teams.
- Led a team of 6 to deploy a team-matching app for hackathons using Mongo DB, Express, React, and NodeJS. Improved the DevOps by setting up a CI/CD pipeline, unit testing, and deploying to AWS and Vercel.

INTERESTS /AWARDS

- **Golf:** TAPPS Golf State Tournament – 3rd Place
- **Teaching:** Taught Math and Computer Science to 40 underserved middle school students

May 2021

June – July 2020