

ADITYA AGRAWAL

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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

WORK EXPERIENCE

ROUNDTABLE, *Software Engineering Intern*

June 2024 – Present

- Developed an ML model to identify bots from humans based on typing with at least 80% accuracy.

SPACEX, *Software Engineering Intern – Application Software*

January 2024 – April 2024

- Developed new and updated existing ML Analyzers to automate data reviews for launch and testing operations of the Merlin Vacuum Engine and Stage 2; directly increasing mission safety and production rates. Additionally, saved \$200k per launch by reducing the run time of one analysis.
- Gathered feedback from various stakeholders to update a webapp used to trigger and view analysis results – implementing date filtering, increasing clarity and numerous quality of life updates to reduce user error while interpreting analysis results.
- Strengthened the security of systems, with a minimal impact to performance through updated authentication for our database.
- Increased development speed for the team by improving documentation and increasing debugging functionality.

SPACEX, *Software Engineering Intern – Recovery Operations*

May 2023 – August 2023

- Trained a computer vision model to enable robot movements reducing 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 ~\$70k annually.

ATMOSPHERE TV, *Software Developer Intern*

May - August 2022

- Led the creation of a customized component library utilizing Vue 3 and TailwindCSS, for websites with 9000+ MAUs.
- 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; saving \$52k annually.

TECHNICAL SKILLS

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

ENTREPRENEURSHIP

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 app](#) for safe navigation of flooded areas using Bootstrap, Firebase, and Google Maps.
- Invented a flood sensor to collect real-time water level measurements, integrated to the web app.

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 40 members and planned 4 hackathons for 2,000+ hackers, raised \$20k in sponsorship.

INTERESTS /AWARDS

- **Golf:** TAPPS Golf State Tournament – 3rd Place

May 2021

- **Teaching:** Taught Math and Computer Science to 40 underserved middle school students

June – July 2020