

# Fawwaz Memon

Houston, TX | US Citizen

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## EDUCATION

### Texas A&M University

College Station, TX

*Bachelor of Science in Computer Science (GPA: 4.0)*

*May 2028*

- **Relevant Coursework:** Program Design and Concepts, Discrete Mathematics.

## EXPERIENCE

### Founder & Lead Software Developer

Aug. 2020 – Present

*Digital Flight Dynamics*

*Remote*

- Built and led a team of 10+ volunteer software developers and 3D artists to develop a free and open-source airliner add-on for Microsoft Flight Simulator, growing a community of 20k+ followers.
- Wrote and optimized 40,000+ lines of React code for pixel-perfect avionics and Rust for high-performance systems simulations across varying hardware configurations.
- Implemented and enforced rigorous code quality standards through code reviews and continuous integration, resulting in improved overall code stability.
- Mentored junior software developers, leading to a 2x increase in weekly code contributions and more consistent pull request quality.

## PROJECTS

### SkyLounge (TAMUHack 2025) | TypeScript, React, TailwindCSS, Python, Flask, SQLite

Jan. 2025

- Developed an interactive in-flight entertainment system in 24 hours using Flask, React, and SQLite, delivering live updates for orders and flight status.
- Engineered a dynamic food ordering system with SSE for sub-100ms live updates and reduced API requests by 80% via data interpolation for reliable flight updates.
- Managed GitHub version control, coordinating 4 teammates across feature branches and merging 10+ pull requests into a stable build within hackathon constraints.

### Smart Clock | TypeScript, React, Rust, Tauri, Linux

Aug. 2024 – Dec. 2024

- Led a team of 6 through development of a smart wall clock prototype, integrating hardware and software for live weather, traffic, and calendar information.
- Developed a scalable Tauri + React web app to display date/time, customizable clock styles, and live updates on a Raspberry Pi 5.
- Integrated REST APIs for up-to-date weather and traffic data to optimize functionality for people's morning and evening routines by providing commute times with 94% accuracy.

### React-MSFS Transpiler | Python

Jun. 2024

- Wrote a transpiler using Python to convert React components to MSFS Avionics components, reducing migration time by 75% for 50+ components.

### TensorFlow ML Bot | Python, TensorFlow

Mar. 2023

- Trained a TensorFlow ML model on 10,000+ forum messages, reaching 87% accuracy in responses and autonomously resolving 98% of "when" inquiries.

### Note Nook | TypeScript, React, TailwindCSS, Firebase

Jan. 2023 – Mar. 2023

- Built a full-stack React note-taking and calendar app with instant cross-device data sync, leveraging Firebase Authentication and Firestore Database for secure, seamless user and data management.

## TECHNICAL SKILLS

**Languages:** C/C++, Rust, C#, Java, Python, JavaScript/TypeScript, HTML/CSS

**Technologies:** Node.js, Express, React, TailwindCSS, Electron, Tauri, Flask, .NET, Firebase, MongoDB, SQL, TensorFlow, Unity3D, Linux

**Developer Tools:** Git, GitHub, Visual Studio Code, IntelliJ, Webstorm