Fawwaz Memon

Houston, TX | US Citizen

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EDUCATION

Texas A&M University College Station, TX
Bachelor of Science in Computer Science *May 2028*
- GPA: 4.00.

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: React, Node.js, Express, TailwindCSS, Tauri, Electron, TensorFlow, Flask, .NET, Linux, Unity3D, Firebase, MongoDB, SQL
Developer Tools: Git, GitHub, Visual Studio Code, IntelliJ, Webstorm