Fawwaz Memon

Houston, TX

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EDUCATION

Texas A&M University   College Station, TX

Bachelor of Science in Computer Science   *May 2028*
- GPA: 4.00.

TECHNICAL SKILLS

Programming Languages: C/C++, Rust, C#, Java, Python, JavaScript/TypeScript, HTML/CSS
Technologies & Frameworks: Node.js, React, TailwindCSS, Tauri, Electron, Firebase, MongoDB
Developer Tools: Visual Studio Code, Webstorm, IntelliJ, Git, GitHub
Certifications: Certified SolidWorks Associate (CSWA)

EXPERIENCE

Founder & Lead Software Developer | Digital Flight Dynamics   *Aug. 2020 - Present*
- Built and led a team composed of volunteer software developers and 3D artists, driving development of a free and open-source aircraft add-on for Microsoft Flight Simulator.
- Wrote and optimized **40,000+ lines** of code for pixel-perfect avionics in **React** and detailed systems simulations in **Rust**, all while ensuring high performance across different hardware.
- Implemented and enforced rigorous code quality standards through code reviews and continuous integration, resulting in improved overall code stability.
- Mentored beginner software developers, providing technical guidance and encouraging growth, leading to a **20% boost** in team productivity.

PROJECTS

Smart Clock | Node.js, React, Tauri, SolidWorks   *Aug. 2024 - Dec. 2024*
- Led a team of **6** through development of a smart wall clock prototype, integrating hardware and software for real-time weather, traffic, and calendar information.
- Developed a scalable web application using **Tauri** and **React** to display date/time, customizable clock styles, and real-time updates on a Raspberry Pi 5, allowing for rapid prototyping.
- Integrated RESTful APIs for real-time weather and traffic data to optimize functionality for people's morning and evening routines by providing commute times with **94% accuracy**.
- Collaborated on a CAD design of a clock frame in **SolidWorks**, completing a final prototype in only **3** iterations.

Note Nook | Node.js, React, TailwindCSS, Firebase   *Jan. 2023 - Mar. 2023*
- Developed a full-stack note-taking and calendar management application using **React**, featuring real-time synchronization and cross-device compatibility.
- Implemented **Firebase** Authentication and Firestore Database to securely store user data, enabling seamless data synchronization with **sub-100ms** latency for note and calendar updates.
- Designed and built a clean, responsive user interface using **TailwindCSS**, reducing development time by **30%** and ensuring a consistent user experience across all devices.