Callum Elder
Frontend Developer

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Profile

Avionics Engineer transitioning to Frontend Development with a strong foundation in technical problem-solving and system design. Passionate about **JavaScript** and **TypeScript**, committed to creating robust, user-centric web applications.

Technical Skills

Languages:
Typescript, Javascript, C++, Python

Technologies/Tools:
React, Node.js, Next.js, Tailwind CSS, MySQL, Docker, JSON, Express, MongoDB, PostgreSQL CMake, Vitest, MSW, Figma, VSCode

Projects

Clearscore Idea Board React, Typescript, Vitest, Tailwind CSS, Shadcn	• A technical assessment for a Frontend Developer role at ClearScore. • A **responsive** idea board utilising **testing**. • Local storage used for **persistence** of data and **sorting** methods for idea ordering.
Flipdish Assessment React, Typescript, Vitest, React Query, Tailwind CSS	• A frontend assessment for a developer role at Flipdish. • Data retrieved from an **API** by using **React Query** to fill menu content. Elements conditionally rendered dependent on nested object fields in the retrieved **JSON**. • **Vitest** utilised to **test** whether the appropriate fields render the expected data.
FlyMil React, Typescript, Tailwind CSS, React Query, Shadcn, Leaflet.js	• A flight tracker strictly for government and military aircraft using the ADS-B Exchange **API**. • Each aircraft can be selected to display what type of aircraft it is, its current in-air characteristics and the country it is registered to by inspecting aircraft hex codes. • Aircraft is updated regularly to ensure data is up-to-date but as to not bypass API call limits.

Experience

June 2020 - Present Avionics Engineer Royal Air Force	• Specialised in troubleshooting avionics on Eurofighter Typhoons, achieving 100% operational readiness for multiple exercises by resolving complex issues. • Developed computer tools to speed up specific fault diagnostics by ~40%, reducing resolution time and boosting mission efficiency. • Mentored junior engineers, improving their qualification exam pass rates by 30% through focused training. • Achieved top rankings (98%) in specialised airframe training, demonstrating strong technical proficiency.