Madison Fries

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Professional Experience

Charged Particles   April 2022 - Present
Front End Engineer

- Optimized the React Virtuoso grid by removing bugs, reducing external API calls by 14% and improving client performance
- Implemented Firebase backend and cloud functions to handle user authentication and Firestore database
- Created React Query hooks to manage and cache data from GraphQL and JSON API sources, resulting in smoother user experience and automatic data updates
- Developed role based access control using CASL in a collaborative project dashboard, allowing users to invite others and grant roles to permit or restrict actions
- Designed a B2B onboarding product in Figma, developed the front end, and achieved a reduction in overall user fees by 10%

Technical Experience

Alto   https://alto.earth

- Rebuilt my first project with focus on improving user flow, a11y accessibility, and visual design
- Used Svelte and Tailwind to create user interfaces best suited for fast information consumption by users
- Programmed SvelteKit server load functions with the Sanity CMS backend to provide fully typed data on load to all slug pages

Puffer   https://puffer-bzj.pages.dev

- Ventured into creative coding with P5.js, implementing the "smoking" algorithm
- Utilized K-D Trees to efficiently work in three dimensional color spaces
- Designed the user interface with Svelte and Tailwind

Linux Server Administration

- Administered my home Linux server through SSH, Bash, and Docker, managing terabytes of data stored through BTRFS, ZFS, or RAID
- Hosted file storage, media players, local network controllers, and IPFS nodes
- Backed-up deduplicated data periodically to Backblaze B2

Skills

Languages: JavaScript, TypeScript, HTML, CSS, Bash
Software: Docker, GraphQL, MongoDB, Jest, Firebase, Sanity CMS
Frameworks: React, Svelte, Astro, SvelteKit, Gatsby.js, Next.js, Express
Packages: TailwindCSS, Material-UI, Styled-Components, React Query, P5.js, CASL

Education

San Diego State University   2020
BS - Computer Science
Harvard Extension School   2018
Computer Science