

# Madison Fries

Los Angeles, CA • [madisonfries@protonmail.com](mailto:madisonfries@protonmail.com)

<https://madisonfries.xyz> • <https://linkedin.com/in/madisonfries> • <https://github.com/michecode>

## Professional Experience

Charged Particles & Taggr

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 data synchronization with Firestore
- Created React Query hooks to manage and cache data from GraphQL and JSON API sources, resulting in smoother user experience and automatic data updates
- Interfaced with the Ethereum backend, using React Contexts to hold user authentication required for signed transactions
- Debugged areas of code causing excessive rerenders with React callbacks and memos
- Designed a B2B onboarding product in Figma, developed the front end, and achieved a reduction in overall user fees by 10%

**Technical Experience** - Demos, videos, and in-depth descriptions on <https://madisonfries.xyz>

**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 / media servers, Ubiquiti / Omada network controllers, and Ethereum / Chainlink nodes
- Backed-up data periodically to Backblaze B2, deduplicating data to minimize overall bandwidth requirements

## Skills

Languages: JavaScript, TypeScript, HTML, CSS, Solidity, Bash

Software: Docker, GraphQL, MongoDB, IPFS, Jest, Firebase, Sanity CMS

Frameworks: React, Svelte, Astro, SvelteKit, Gatsby.js, Next.js, Express

Packages: TailwindCSS, Material-UI, Styled-Components, Ethers.js, React Query, P5.js

## Education

San Diego State University

2020

*BS - Computer Science*

Harvard Extension School

2018

*Computer Science*