Raffaele Cataldo

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Full stack software developer
Passionate problem solver with an eye for design

Technical Skills

- TypeScript/Javascript
- React/NextJS
- Recoil/Redux
- Jest

- NodeJS/Express
- Git/Github
- Tailwind/MaterialUI
- HTML/CSS/SCSS

- MongoDB
- SQL
- Python/Flask
- AWS/Lambda

Work Experience

WithEncore: Back-office solutions for Hollywood   **May 2022-April 2023**
Full Stack Developer

- Increased development speed and consistency across app by designing and developing reusable UI components with React/NextJS and TypeScript

- Leveraged React Recoil for state management and React 18 Suspense to improve app performance and time to first render

- Designed and built custom hooks to streamline multi-step form implementation, state persistence, and user feedback, resulting in increased development speed and maintainability of the codebase

- Migrated MVP from JavaScript to TypeScript to enhance the quality and scalability of the codebase

- Developed robust API endpoints that interact with Prisma and MongoDB to perform CRUD operations on user data

- Implemented rate-limiting on login forms using Redis, increasing application security.

- Developed UI features according to Figma designs in a timely manner

- Contributed to decisions regarding architecture, data models and design with other developers and startup founders.

Freelance Web Developer   **May 2021-April 2022**

- Developed landing pages for musicians/artist, creating mobile first designs and improving time to first paint when compared to their previous, no-code versions (http://lordyouth.com, http://goodnightcircus.com/)

Volunteer Activities

Radical Engineers   **March 2022 - Present**
Software Engineer

- Designed and developed a workplace accessibility survey app, using Next.js 13, for UK based non-profit, helping them improve outreach and understand their customer base: https://quiz.sicofficial.co.uk

    - Designed data models that allow for efficient data manipulation using Prisma and MongoDB

    - Admin page allowing for a comprehensive view of website analytics, survey responses using Recharts, as well as a simple CMS for updating survey questions and feedback

    - Authorization and authenticaction for admin page using NextAuth - limiting login to an email link and secured with a JWT token

    - Contact form that also sends the organization the quiz results, using Nodemailer

- Developed a Twilio phone-tree app for a prisoner's rights group, Straight Ahead, to improve prisoner support as well as fundraising communication

    - Python Flask to build API
    - Deployed to Python Anywhere
    - Trello for management of project stories

Personal Projects

Synth App
https://synth-app.vercel.app/

- Musical web app allowing the user to intuitively create musical loops and melodies, for fun or for use as a harmonic metronome for practice
- Developed with TypeScript and Next.js, deployed to Vercel
- Utilized React Recoil for atomized state management
- Designed clean, flat UI with Tailwind and Headless/UI
- Visualization of sound wave using web canvas API

Languages

- English (native)
- German (advanced)
- Spanish (advanced)
- Italian (intermediate)
- Turkish (intermediate)

Education

The Open University   **Oct 2021 -** *in progress*
BScHonours Computer Science and Statistics

Career Foundry   **Sept 2021-March 2022**
Fullstack Web Developement Bootcamp

- 900 hours of project based learning. Received code review from industry professionals at Expensya and East African Power Company to refine skills
- Topics covered: Amazon Web Services, Google OAuth, React, Redux, Test Driven Development, RESTful API development, Express, NodeJS, Object Oriented Programming, CSS/Sass, MongoDB, Mongoose