Raffaele Cataldo

(707)409-8076 | raffaelecataldo.dev@gmail.com | raffaelecataldo.com | LinkedIn | GitHub

Full stack software developer specializing in Next.js/TypeScript
Passionate about crafting elegant software solutions for real world problems

Work Experience

Inabia   **January 2024-Sept. 2024**
Next.js Developer (Software Engineer Contractor at Consumer 51)

- Lead Next.js development for HIPAA compliant medical records application, mentoring teammates on usage Next.js APIs, leveraging React Server Components and Next.js App Router for efficient data fetching and mutating, filtering and pagination.

- Spearheaded automated testing of the front end, reducing engineer time in manual testing and improving confidence when delivering new features.

- Developed back end endpoints using Next.js server actions to interface with our PHP/Laravel backend, writing PHP as necessary, parsing form values to ensure data integrity, dispatching further api calls, and updating the front end efficiently.

- Completed long-delayed UI component for managing dockable in-app windows, utilizing React Context and useReducer APIs, allowing users to update and create medical records while navigating through other in-app pages to search for relevant patient information.

- Reduced application complexity and hastened time to build new features by creating reusable UI components, refactoring duplicated code into reusable components, taking advantage of TypeScript to catch bugs while refactoring.

- Received consistent praise from project manager for my leadership, work ethic, passion for the project and engagement with our fully remote, agile development team.

Encore   **May 2022-April 2023**
Full Stack Developer

- Built end to end features for financial application, integrating with Stripe, Plaid, and Google APIs to create user flows for invoice creation and payment, as well as KYC steps for on-boarding users.

- Migrated code base from JavaScript to TypeScript, eliminating TypeErrors, improving maintainability

- Increased application security by implementing rate-limiting on login forms using Redis, integrating NextAuth magic links for sign in, ensuring compliance with third party vendors.

- Implemented state management with React Recoil, resulting in user interactions under 100ms.

- Developed robust API endpoints that interact with Prisma and MongoDB to perform CRUD operations on user data, integrating email communication with SendGrid

- Ensured accessibility through use of semantic HTML, keyboard navigability forms and UI elements, proper color contrast

Volunteering

Radical Engineers   **March 2022 - August 2023**
Software Engineer (Volunteer)

- Designed and developed a workplace accessibility survey app, using React/TypeScript for UK based non-profit Sic in the City, building accessible front end to complete the survey and backend secured with NextAuth

- Admin dashboard allowing for a comprehensive view of website analytics, survey responses, and other data using MongoDB, React, TypeScript, helping Sick in the City improve outreach and understand their customer base.

- Developed a Twilio phone-tree app for a criminal justice reform group, Straight Ahead, to improve prisoner support as well as fundraising communication, using Python Flask.

Technical Skills

Languages: TypeScript, JavaScript, Python, Rust, Java
Front End: React, Next.js, Redux, Recoil, Tailwind, Material UI, CSS, HTML
Back End: Node.js, Express, Laravel, Flask, Axum Web
Databases: MongoDB, MySQL, SQLite, Postgres
Tools: Git, GitHub, Linux, Docker, Vim, Jest, Zod, Prisma, React Testing Library

Personal Projects

International Clock
clock.raffaelecataldo.com

- A web app to display local times at any location. User searches for a location using the Open Street Map Nominatum API. Then a request is sent to an AWS Lambda function that calculates the time zone based on the longitude/latitude co-ordinates. Uses Github actions to handle CI, deployments to AWS and cache invalidation.

- Backend built with Rust on AWS Lambda for super fast request times (under 2ms when warm).(github.com/farmeroy/time-zone-api)

- Frontend built with React, hosted on AWS through S3 and Cloudfront (github.com/farmeroy/intl-clock)

- I also made a command line version that uses Sqlite to cache results, allowing an easy way to run cron jobs according to non-local times: (github.com/farmeroy/ruhr)

Time Bandit
github.com/farmeroy/time-bandit

- Time management command line application built with Rust and SQLite. Designed for an easy workflow - start tasks, track time spent on task, view how much time was spent on specific aspects of the task.

Education

The Open University   **Oct 2021 -** *in progress*
BScHonours Computer Science and Statistics
Career Foundry   **Sept 2021-March 2022**
Fullstack Web Development Bootcamp

Languages

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