Raffaele Cataldo

https://raffaelecataldo.com | (707)409-8076 | raffaelecataldo.dev@gmail.com

Full stack software developer creating intuitive user experiences
Experience with early stage startups and working remotely

Work Experience

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

- Increased development speed and consistency across the 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, resulting in more conversions

Professional Violinist   **January 2011 - May 2022**

- Performed with and coordinated diverse, multi-national team members by managing rehearsals, bookings, and tour organization for ensembles of 3-7 people. Resolved creative differences and interpersonal conflicts between group members, effectively managing team dynamics to deliver exceptional performances

Volunteer Activities

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

- Designed and developed a workplace accessibility survey app, using Next.js 13, for UK based nonprofit, 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 authentication 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 requirements and user 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
- Visualization of sound wave using web canvas API

Time Bandit
https://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.

Technical Skills

Languages: TypeScript, JavaScript, Python, Rust
Front End: React, Next.js, Redux, TailwindCSS, MaterialUI, CSS, HTML, JQuery
Back End: Node.js, Express, Flask
Databases: MongoDB, SQLite, Postgres
Tools: Git, GitHub, Linux, Vim

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 Development 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