

Raffaele Cataldo

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

Technical Skills

Languages: TypeScript, JavaScript, Python, Rust

Front End: React, Next.js, Redux, TailwindCSS, MaterialUI, CSS, HTML

Back End: Node.js, Express, Flask

Databases: MongoDB, SQLite, Postgres

Tools: Git, GitHub, Linux, Vim

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 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 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.

Languages

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

Education

The Open University

Oct 2021 - in progress

BSc Honours 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