

Raffaele Cataldo

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*Full Stack Developer specializing in Next.js/TypeScript applications
Experienced working on remote teams and early stage startups*

Work Experience

Inabia

January 2024-Sept. 2024

Next.js Developer (Software Engineer Contractor at Consumer 51)

- Led frontend development of HIPAA-compliant medical records system while mentoring 2 developers on Next.js APIs, React Server Components, and advanced TypeScript patterns
- Reduced API response times by 75% through query parallelization and elimination of redundant backend calls, significantly improving workflow efficiency for medical staff
- Architected dockable multi-window system enabling simultaneous viewing of patient records, significantly reducing context switching for medical staff
- Developed real-time alerts feature for critical patient readings (e.g., blood sugar), improving responsiveness to emergencies
- Spearheaded comprehensive front-end testing strategy, leading team adoption of Jest and React Testing Library, and reducing QA time by 60% while increasing deployment confidence through automated integration tests

Encore

May 2022-April 2023

Full Stack Developer

- Led TypeScript migration of 10K+ line financial application codebase, implementing strict type checking and generic types, resulting in 90% reduction in runtime errors
- Enhanced application security through Redis-based rate-limiting and NextAuth magic link authentication, meeting financial industry security requirements
- Built secure payment workflows for a financial platform, integrating Stripe and Plaid APIs and designing KYC processes.
- Built high-performance state management system using React Recoil, achieving consistent sub-100ms user interactions
- Engineered secure vendor onboarding flow allowing users to request sensitive tax and payment information from contacts, implementing automated email notifications and secure document upload capabilities while maintaining data privacy

Freelance

Sick in the City

June 2023 - August 2023

Software Engineer

- Designed and developed a workplace 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 (quiz.sicofficial.co.uk)
- Built an admin dashboard with MongoDB and React, offering real-time analytics on survey responses and user engagement data.

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

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

- Developed a web app enabling users to check local times globally, leveraging the OpenStreetMap API for accurate geolocation.
- Implemented a Rust-based backend on AWS Lambda, achieving request times under 2ms for a seamless user experience.
- Implemented automated CI/CD workflows using GitHub Actions for seamless deployments of a React frontend, hosted on AWS S3 and distributed via CloudFront with efficient cache invalidation.

Time Bandit

github.com/farmeroy/time-bandit

- Built a command-line time management tool in Rust, integrating SQLite for data persistence.
- Designed intuitive workflows for task tracking and time allocation, helping users optimize productivity and analyze time spent on projects.

Education

The Open University

BSc Honours Computer Science and Statistics

Oct 2021 - *in progress*

Career Foundry

Fullstack Web Development Bootcamp

Sept 2021-March 2022

Languages

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