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

- TypeScript migration of financial application codebase, implementing strict type checking and generic types, reducing runtime errors and improving maintainability.
- Built secure workflows for a financial platform, integrating Stripe and Plaid APIs and designing KYC processes.
- 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
- Enhanced application security through Redis-based rate-limiting and NextAuth magic link authentication, meeting financial industry security requirements
- Implemented state management using React Recoil, achieving consistent sub-100ms user interactions

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   **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)