

# Raffaele Cataldo

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*Software Developer specializing in TypeScript and React  
Experienced working on remote teams and early stage startups*

## Work Experience

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### 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 database 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

## Volunteer

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### Radical Engineers

March 2022 - August 2023

*Software Engineer*

- 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.
- 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](http://quiz.sicofficial.co.uk)) Read case study: <https://raffaelecataldo.com/case-studies/sic-app>

## Technical Skills

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**Languages:** TypeScript, JavaScript, Python, Rust

**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

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### International Clock

[clock.raffaelecataldo.com](http://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](https://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

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### The Open University

*BSc Honours Computer Science and Statistics*

**Oct 2021 - *in progress***

### Career Foundry

*Fullstack Web Development Bootcamp*

**Sept 2021-March 2022**

## Languages

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