Alessandro Perchiazzi

Frontend Engineer · React & TypeScript
Naples, Italy · 14 years in the UK

Portfolio: alessandroperchiazzi.com
GitHub: github.com/alessandvoken
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Frontend engineer with over three years of production work, mostly at IBM, after six years as a documentary photographer. I work at the intersection of design, product thinking, and engineering, building data-heavy interfaces with accessibility as a baseline and shaping their frontend architecture.

Experience

Frontend Engineer · **IBM**, Digital Product Engineering March 2024 – Present

Project: **PLAI / ETC** · State Accounting Office July 2024 – Present

- Sole frontend engineer on an AI platform for searching legislation and drafting legal opinions, winner of the Italian Digital Agenda Award 2025.
- Designed the frontend architecture with the full-stack lead, working alongside designers and backend developers.
- Reached 98% accessibility vs the client's required 80% (their WCAG 2.1 AA audits), with hand-built tagged PDFs (PDF/UA) and keyboard-navigable data grids over virtualized tables.
- Code-split the app into 22 on-demand chunks, deferring the design system and the TinyMCE editor (~630 KB gzipped) off the initial load.
- Leading the migration from React 18 / JS / Redux to React 19 / TypeScript / Zustand + TanStack Query (REST via Axios), re-architecting the UI into patterns reusable across different flows.
- Early adopter of Verso (Lit web components) in React; reported bugs upstream to its team.
- ~940 automated tests (Vitest + Testing Library) with CI coverage gates.

Project: **DGT** · Italian tax courts June 2025 – Present

- Built features across a case-management app with ~2,000 users, developed by a large cross-functional team and shipped as an embeddable micro-frontend with full i18n.
- Worked closely with the client to turn highly complex legal requirements into UI, proposing the UI flows.
- Designed, built, and maintained reusable filter components (multi-select, date and number ranges, chips) for the app's most complex area, a ~2,600-line filter form for lawyers and judges.
- Added Zod-based filter validation, worked on keeping filter state linked and preserved across pages, and introduced date-fns to the team.
- Integrated REST APIs with RTK Query; added shared utilities and web-component props to unblock teammates.

Project: **Virtual Expert** · National Customs Agency January 2025 – May 2025

- Co-developed the conversational UI of a real-time AI chatbot in React + TypeScript, streaming responses over WebSocket with OIDC authentication on AWS Cognito.
- Built the WebSocket connection and its close-code error handling, and the chat UI in React Bootstrap + Sass.

Project: **BPER Bank** · Banking platform March 2024 – June 2024

- Frontend contributor in a large team: bug fixing and support, plus feature implementation and testing with a proprietary design system in Storybook.

Frontend Developer · **Freelance**, London (UK) August 2023 – February 2024

- Built and maintained client websites and React web apps for emerging photographers, from requirements to deployment on Netlify.
- Shipped production code in HTML, CSS, Sass, JavaScript, and React.
- Performed quality assurance testing on client projects.

Documentary Photographer · **Freelance**, London (UK) February 2017 – January 2023

- Shot and edited long-form documentary stories in London and the Caucasus, featured in several publications.

Skills

Core: TypeScript, React (18 / 19), JavaScript (ES6+), HTML & CSS

Design Systems & Accessibility: Tailwind CSS, Bootstrap, Sass, Storybook, Verso (Lit web components), WCAG 2.1 AA, ARIA, eslint-plugin-jsx-a11y, Lighthouse

State & Data: TanStack Query, Zustand, Redux Toolkit + RTK Query, React Hook Form + Zod, TanStack Table, REST APIs, Axios, WebSockets

Testing & Delivery: Vitest, React Testing Library, CI coverage gates, Vite, Node.js, Docker, AWS, Git, Azure DevOps CI/CD

Education

Front-End Engineer Career Path · **Codecademy** 2022 – 2023

BA (Hons) Photojournalism & Documentary Photography · **University of the Arts London** 2017 – 2020

Certifications

Anthropic Certified Associate (CCAO-F) 2026

AWS Certified Cloud Practitioner (CLF-C02) 2025

Languages

English: C2 · **Italian:** Native