

Edvin Candon

Paris, France | edvin@lostsolution.io | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Tech Lead and software engineer with 13 years building web, mobile, and media products end to end. Founding engineer on Proton Pass, taking a security product from zero to over a million users, and comfortable going deep wherever a problem leads. Equally at home setting technical direction for a small team and owning a feature from spec to production, with an eye for design and detail.

EXPERIENCE

Proton

Founding Engineer, Proton Pass

Tech Lead

Senior Front-End Engineer

Aug 2022 – Present

Paris, France

Mar 2024 – Present

Aug 2022 – Mar 2024

- Founding engineer on Proton Pass, building the password manager across browser extension, web app, and Electron desktop from a single shared codebase (up to 90% shared). Now over 1M users on the Chrome extension, with a 4.8+ rating across Chrome, Firefox, and other stores.
- Built the autofill engine from scratch on a custom Mozilla Fathom fork, owning the full ML pipeline (data extraction, labeling, training, cross-validation): perceptron models detect login, registration, recovery, and password-change forms and their fields across frames and iframes, later extended with a hybrid approach to cover credit-card and identity autofill.
- Designed the event-sourced Redux architecture (primary/replica stores) that reconciles state across the extension's isolated contexts under Manifest V3, and contributed across the offline-first sync engine and its conflict resolution.
- Contributed to a shared Rust crate compiled to WebAssembly and reused across the web and mobile clients.
- Implemented security-critical flows, including in-memory secret obfuscation, offline encryption, and client-side file encryption, hardened the autofill UI against clickjacking and injection, and drove Pass through two rounds of independent security audits, working directly with the researchers.
- Shipped core vault capabilities end to end: passkeys/WebAuthn, secure item sharing and links, 2FA/TOTP, email aliases, and biometric and local unlock; also contributed to Dark Web Monitoring.
- Contributed to Proton Authenticator (Tauri): worked on the security layer, using an adapter pattern to abstract encrypted local storage across platforms; stabilized a demanding security-critical release and optimized overall performance.
- Tech Lead for a small squad, setting technical direction (notably the shared cross-platform architecture and the review standards the team builds on) alongside code review, onboarding, and mentoring.

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Software Engineer, independent label

Dec 2012 – Present

Paris, France

- Independent, non-competing label for indie and R&D work run alongside my employment, with full ownership from spec to deployment; occasionally subcontracting parts of the work to other developers.
- Built a real-time generative-art installation for the Tate Modern, synchronized across gallery rooms over WebSockets.
- Built a kidney-transplant rejection classifier (SVM) with University of Rouen researchers, deployed as a public web tool (see Publications).
- Delivered e-commerce storefronts across Prestashop, Thelia, and Shopify for a range of clients.
- Built portfolio and showcase sites on a range of headless-CMS stacks (Next.js, Hygraph, Strapi).

GreenVillage

Early-stage startup

Tech Lead

May 2020 – Jun 2022

Paris, France

Mar 2021 – Jun 2022

- Led design and development of a B2B fresh-produce marketplace connecting the whole supply chain (producers, intermediaries, resellers, and final buyers), spanning a React front-end, NestJS back-end, React Native mobile app, APIs, and data pipelines; led engineering and cross-functional work and owned AWS deployments and CI/CD.
- Modeled the fresh-produce supply chain end to end: clients sync their price lists (mercuriales), auto-generate margins, and build catalog views for their sub-clients.
- Built a volume-prediction algorithm for collection logistics and maintained an in-house MongoDB ORM.
- Co-designed and implemented PLU+, an extended produce-identification standard carrying the tracking data that standard PLU codes lacked.

Full-Stack Engineer

May 2020 – Mar 2021

- Built platform features full-stack as an individual contributor across web, mobile, and APIs.
- Stepped in for the departing tech lead, owning deployments (AWS), onboarding, mentoring, and task definition, which led to my promotion.

Dealt (ex Mon Super Voisin)

Freelance Engineer

May 2022

Paris, France

- Brought in to audit their integration workflows, build a PHP SDK for their GraphQL API, and ship a Prestashop module extending their reach across the e-commerce ecosystem.

Eulerian

Mar 2021

Freelance Engineer

Paris, France

- Brought in to build a cross-platform Flutter SDK for their analytics/tracking API.

France Télévisions

Mar 2017 – Jun 2020

Lead Developer

Paris, France

- Core member of the video experience team; led the full rewrite of the web video player in RxJS and Preact, introducing reactive programming to the team.
- Shipped the player across the entire france.tv ecosystem (france.tv, franceinfo, and more), reaching millions of viewers.
- Maintained the API for contextualized stream selection across the streaming stack.
- Built cloud-based end-to-end testing infrastructure; collaborated with Mediamétrie, NPAW, Freewheel, and AWS.

LinkValue

Mar 2017 – May 2020

Tech Partner

Paris, France

- Embedded consultant at France Télévisions, with 10% R&D time at LinkValue.
- In-house R&D: built internal mobile apps in React Native and implemented a Kohonen self-organizing map in Go for PNG color quantization.
- Helped prototype melanoma image recognition as part of the company's ML team at a Pierre Fabre hackathon.

Blazon · cross-design

Dec 2012 – Dec 2016

Full-Stack Developer

Paris, France

- Grew from junior developer to owning the agency's full-stack delivery, shipping 20+ projects over four years.
- Built e-commerce, marketing, and B2B sites for clients including LVMH, Dassault Systèmes, and BNP Real Estate, reaching for UI/UX, motion graphics, and 3D when a project called for it.

OPEN SOURCE

barrel-reaper | Rust

- Rust-based build tool that prunes barrel-file re-exports to speed up build and dev-server hot-reload times in large monorepos.

optimistron | TypeScript, Redux

- Opinionated optimistic-state-management library for Redux, generalizing a pattern I built in-house.

revux | Vue.js, Redux

- Vue.js / Redux binding built for france.tv before such interop was standard.

Contributions

- Contributions to hls.js and dash.js; notable bug reports to WebKit/Safari, SWC, and Brave; RFCs to Strapi.

PUBLICATIONS

de Nattes T, et al. (incl. **Candon E**). "A Simple Molecular Tool for the Assessment of Kidney Transplant Biopsies." *Clinical Journal of the American Society of Nephrology*, 2023. Built the SVM classifier, deployed as a public web tool.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Rust, Python, PHP, Dart

Frameworks & Libraries: React, Redux, Next.js, React Native, Vue.js, RxJS, Preact, NestJS

Cross-platform: Electron, Tauri, WebAssembly, Flutter, Web Extensions (MV3)

Back-end & Data: Node.js, GraphQL, MongoDB, SQL, Strapi

Build & Tooling: Vite, Webpack, esbuild, SWC

Testing & Infrastructure: Playwright, Jest, AWS, Docker, GitHub Actions, CI/CD, Git

EDUCATION & CERTIFICATIONS

Lycée Rabelais

2008

Baccalauréat Scientifique, Mention Très Bien

Meudon, France

Certification: Mathematics for Machine Learning: Linear Algebra, Imperial College London (Coursera)

Languages: French (native), English (bilingual), Spanish (elementary)