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# Timothée “Tim” Pillard

## Senior Front-End Engineer

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I'm a Front-end Engineer with 10 years of professional experience building business-critical & public-facing web applications and websites in various environments.

Passionate about the Web, I am proficient with JavaScript, Web technologies, the modern Front-end ecosystem and related tooling, with a strong focus on performance and security.

## Employment History

### Dashlane, Paris

[Dashlane](#) is a full-featured password manager for both individuals & businesses. The Dashlane Browser Extensions count 1M+ active users.

November 2021 - June 2022, *Senior Front-End Engineer (CI & DX Expert / Freelance)*

Realized two missions within the Web Platform Squad, for a duration of 2-3 months, 3 days per week:

1. Following reports Mozilla Addons of Firefox Extensions policies violations, and subsequent blocking of new releases of the Dashlane Firefox Extension (200K+ active users), I have worked on two axes which led to the Dashlane Firefox Extension releases being unblocked in May 2022:
  - a. I specified necessary changes related to security & privacy, then implemented or followed up implementation with Dashlane engineers across multiple teams.
  - b. I designed, implemented & integrated to production release pipelines, a fully offline reproducible build for the Dashlane Firefox Extension, for use by Mozilla Addons Reviewers.
2. Within the Web Platform Squad, I was championing the “Build It Right” Team, composed of myself & two Dashlane Engineers, aimed at improving DX & CI performance, by dramatically simplifying & modernizing build processes within the Dashlane Extensions Monorepo, as well as documenting key expectations, requirements & technical details of said processes.

Also contributed to & coordinated tooling related efforts across multiple teams for the implementation of a package generator within the Dashlane Extensions monorepo; in particular involving tailored shared configurations for common tools (Babel, Browserslist, Jest, TypeScript, ...), to be used by all Web Platform packages & projects, according to their specific needs.

My intervention resulted in the unblocking of high priority roadmap items, highly impactful DX & CI improvements in terms of performance or reliability, and increased expertise within the Web Platform Squad, allowing Dashlane Engineers to further develop their vision for CI & DX at Dashlane.

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November 2020 - May 2021, *Senior Front-End Engineer (Technical Lead)*

Technical Lead within the “Desktop No More” mission team, leading & mentoring 4 junior to intermediate level Front-end engineers, through the implementation of existing Dashlane features of the Dashlane Desktop App to the Dashlane Webapps & Web Extensions (management of Bank Accounts & Identity Documents vault data types).

I have defined, advocated for & enforced various web development best practices with React, Redux, UI components library, web performance, security; a public version of some of these presentations are available on my blog:

- [Forms handling with React: Giving Up Control.](#)
- [Cross-Origin Resource Sharing For The Web \(Extension\).](#)

Upon completion of the mission of the “Desktop No More” team, I joined the “Web Platform Squad” in quality of Technical Lead.

While mentoring 2 Junior Engineers, we provided support to dozens of Dashlane Engineers across multiple teams, in a large-scale organizational & tooling migration from a codebase scattered in many repositories, to a unified “Dashlane Extensions monorepo” powered by Yarnv2 Workspaces.

During these seven months as a Dashlane employee, I also made significant improvements to the Dashlane Webapps & Browser Extension CI & DX, made various contributions, either directly to Dashlane’s product, or related to security, privacy, performance, accessibility, guidelines & documentation, etc...

## **GANDI, Paris**

[GANDI](#) is the “No Bullshit”™ domain registrar, cloud hosting and related services provider.

GANDI manages over 2.5 million domain names for a varied panel of customers and use-cases, in 4 business units (Paris, Luxembourg, San Francisco, Taipei) over the world.

September - October 2021, *Senior Front-End Engineer (Web Developer / Free-lance)*

Short free-lance mission where I was hired to assist the “WWW Squad” in the redesign of [GANDI’s public website: www.gandi.net](#) (also including integration of Wagtail headless CMS) to meet their deadline.

Various web development work in a Python/Pyramid codebase, such as:

- New Button component & variants in CSS with Sass ([Codepen](#))
- Animated native image lazy-loading in JavaScript
- Custom Discounts Back-Office in Wagtail CMS with JavaScript & Python (<https://www.gandi.net/discounts>)
- Web performance recommendations

2019 - August 2020, *Senior Front-End Engineer (Lead Front-End Engineer)*

Growth of [GANDI’s shop app](#) sales by 1.3x.

Reporting directly to the CTO, making recommendations to apply across feature teams.

Member of the Technical Committee, discussions, decisions and follow-up on technical matters.

Bearer of the Front-End vision for the product.

Leading and coordinating Front-End engineering efforts.

Increased focus on previously acquired responsibilities.

Internship supervisor and mentor of a Junior Web Developer intern.

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Spearheaded several projects, such as:

- Recruitment of two Senior Front-End Developers for the Domain Squad.
- Designed and successfully submitted Front-End architectures for new or revamped websites, Front-End components.
- Technical Project Management for externalized projects.
- Serving ES2017 bundles for modern browsers and ES5 for legacy browsers in our SPAs, resulting in a significant reduction of the amount of JavaScript imposed to users.
- Implemented bundle-splitting to improve the HTTP Caching efficiency of JavaScript assets in our SPAs
- Improved HTTP Caching strategy used in our SPAs, in particular [GANDI's shop app](#)
- Upgrading dozens of our internal JavaScript libraries build system to Babel7, outputting both ESM and CJS modules for improved reliability and performance
- Various improvements to the Front-End CI Pipelines, including speeding it by up to 40%, as well as additional analysis and recommendations for further improvements.

2018 - August 2020, *Senior Front-End Engineer, Billing Squad*

Growth of [GANDI's shop app](#) sales by 2x.

I was the technical referent of a 9-14 Front-end engineers team (Front-end chapter) across 4 product teams (squads).

Code reviews, technical directions, specifications, documentation, best practices, mentorship, various recommendations.

In charge of technical assessment during interviews and vetting applications in Front-end developers recruitment process.

Initiated and completed several projects, such as:

- PDF Invoice & other legal documents using Puppeteer over a Node.js HTTP API
- Refactoring the domain name search suggestions UI powered by a SSE HTTP API using JavaScript (ES2015+), React, Redux
- Reworked HTTP caching strategy of the marketing website, resulting in dramatic performance improvements using Python with Pyramid

New features implementations, billing business logic front-end packages, maintenance, production monitoring.

2016 - 2018, *Front-End Engineer, Billing Squad*

Growth of [GANDI's shop app](#) sales by 10x.

I've since been a key individual contributor with a strong ownership of:

- Billing-related features of the business (buying processes, pricing, shopping cart, invoicing, saved credit cards, up-sell/cross-sell)
- Performance of React/Redux web applications and HTTP APIs
- JavaScript cross-browser compatibility (polyfills, babel / babel-preset-env / babel-transform-runtime)
- Web applications security (SRI, Same-Site cookies, unified password strength estimation and requirements as a Node.js HTTP API leveraging zxcvbn)
- Internationalization (such as numbers / prices formatting using Intl.js / CLDR)

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Also initiated and implemented various production-related tooling:

- Logging strategy for the front-end apps
- Production and performance monitoring using Kibana dashboards (ELK stack)
- Runtime Exceptions Monitoring with Sentry

Various features implementation, maintenance.

December 2014 - 2016, *Apprentice Web Developer, various squads*

In late 2014, GANDI started legacy systems migration (v4 -> v5 “beta”), notably:

- from a PERL/Catalyst monolithic website to multiple Python/Pyramid and React/Redux/SSR websites
- from an XML-RPC API to HTTP RESTful API microservices
- numerous functional improvements (usernames, organizations, teams, permissions)

During my apprenticeship, I have contributed to various new projects, including the building blocks of GANDI's current production landscape:

- initial version of [www.gandi.net](http://www.gandi.net) using Jinja templates and Python / Pyramid for the back-end, HTML5 / CSS3 with Sass / JavaScript for the front-end and a build system based on Gulp.
- initial version of the ecosystem and architecture powering GANDI's apps using notably:
  - React / Redux
  - Node.js / Express / SSR / node-client-sessions
  - Webpack / Babel

I also had the opportunity to offer some minor open-source contributions to [GANDI CLI](#) and [Caliopen](#).

## **Tapastreet, Dublin / Remote**

Tapastreet was an early-stage startup that aimed at extracting value out of social media feeds.

2013 - 2014, *Web Developer / Junior Product Manager*

Prototyping web applications leveraging social networks public APIs using HTML5 / CSS3 / JavaScript (ES5) with or without Backbone.js, jQuery in an extremely fast-paced startup environment or hackathons.

Conception & Development of a SaaS product: easily embedding curated social media galleries (photos & videos) into any website, app or digital magazine using iframes or embeddable JavaScript widgets.

## **Joshfire, Paris**

Joshfire was a web agency, specialized in hybrid native applications for smartphones and smart TVs and experimenting in the field of IoT.

There, I worked full-time on the resumption of a client's startup project named Jnuine which enabled users to create and share stories in a virtual photo album, and eventually printing it into a physical one.

March - August 2013, *Web Developer Intern*

JavaScript web application development for the modern web and mobile (iOS & Android with Apache Cordova).

Development of the backend, including a REST API, using Node.js with Express.js & MongoDB.

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## Computer Skills

### Technologies

- JavaScript (ES5+), DOM , HTML, CSS
- Service Worker, IndexedDB, Web Audio, Canvas
- Node.js, HTTP
- React, HyperHTML, Redux, jQuery
- TypeScript, Flow, npm, Webpack, Babel, Sass, PostCSS, CSS Modules ...
- Python
- Git

### Operating systems

Familiar with Mac OS X, GNU/Linux, Windows, recently used Ubuntu Linux / Linux Mint / Manjaro as work environments.

Experience debugging applications running on Debian servers.

## Personal

### Languages

1. French: fluent, mother tongue
2. English: fluent, written & spoken (used daily for work)
3. Spanish: notions

### Contributions

I publish open-source utilities on GitHub & npm on occasion, regularly contribute to open-source projects, mostly on [GitHub](#). Notably, in 2021/2022, I have analyzed the JavaScript bundles & Babel configuration of two important Mozilla projects, and contributed to bringing their JavaScript build to the then current state of the art, leading to modest bundle size & runtime performance improvements:

- [firefox-devtools / profiler - Babel improvements #3195](#)
- [mozilla / addons-frontend - Babel improvements: reloaded #11593](#)

In 2019/2020, I published [soundcut / decode-audio-data-fast](#), a small JavaScript utility allowing to decode mp3 audio file data in the browser consistently faster than the native method.

I use my [personal Twitter account](#) to help and gather feedback from my users, as well as sharing tips on my Web Developer experience and animating discussions (mostly on Web Performance).

Since 2020, I seldom write articles on my [personal tech blog](#), I also wrote an article titled "[Reflecting on our JavaScript Footprint](#)" on [Gandi's blog](#).

## Education

### [IN'TECH \(ESIEA Group\)](#)

2012 - 2016

Studied Software Engineering cursus.

Initiated and developed web projects in teams of 4.