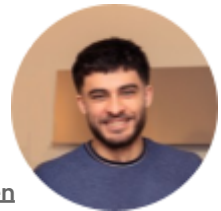


Erwan VIVIEN

Full-Stack Engineer

Expert: Rust, C, JS/TS, React / **Advanced:** C++, C#, Python, CUDA

Paris | +33 (0)6 42 49 00 18 | vivien.erwan@gmail.com | in/erwan-vivien | [github/erwanvivien](https://github.com/erwanvivien)



PROFESSIONAL EXPERIENCE

Jitter (jitter.video) – Software Graphics Engineer

Feb. 23 – Mar. 26

Worked across frontend, rendering, Web APIs and backend. Owned performance-critical product features end-to-end, from technical design to production delivery, in close collaboration with product, design, and engineering.

- Designed and shipped a **state-of-the-art Web rendering pipeline**, reaching up to 100x speedups through caching and smart pipelining
 - Led the first **WebAssembly integration**, improving GIF export performance by 20x and later extending it to 2D path simplification and easing computation
 - Built a **video frame extractor**, improving export speed by 10x for projects having MP4s
 - Rewrote **Web exporters** for MP4, WebM, GIF, improving reliability and maintainability
 - Contributed to full-stack product work including SSO, pricing backend refactoring
- In a team of ~15, clear communication and cross-functional collaboration were essential

EPITA – Teaching assistant (work) and Eng. school (2018–2023)

Sep. 21 – Feb. 23

Selected to teach 4th-year students C, C++, Java and JavaScript (TypeScript)

In a team of ~45, we were preparing subjects and exercises for over 800 students

PROJECTS

FastQR (QRCode Generator) – Rust – https://crates.io/crates/fast_qr

290 stars & 300k downloads

Full implementation of ISO 18004 with focus on CPU optimizations and Wasm
the library was benched at ~10x faster than the standard Rust QRCode library

Maison Bundle – Web (React, NextJS) – <https://maison-bundle.com>

~1.2M€ gross revenue

I've been building the collection of French DIY e-books as the only eng (CTO)

- 250 partnerships leading to 50 000 sales and happy customers.
- Dashboards, monitoring, availability and admin CMS.
- Infra following best practices handling a large amount of concurrent requests.

Other projects – Web (full-stack) / Apps / Open Source

I have a *deep interest* in creating software that is shared with the world, here are my personal projects, some for learning/keeping up-to-date, some for fun:

- *Moonvas*, a moodboard canvas using Durable Objects for project state management, learned a lot on how to use agents
- *FeatGuessr*, a trivia game using graph database (PostGIS)
- *Social Account Manager*, a “browser” where each tab lives in isolation
- *Letter4Later*, sending mail (physical letters) to your future self