

## UX-Driven Full-Stack Engineer | React/Next/TS Expert

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**Portfolio:** <https://mvagnon.dev>

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**GitHub:** <https://github.com/matthieu-vagnon>

### Summary:

Full-stack engineer with 4 years of experience building user-focused, high performance web applications.

- Strong front-end expertise in React.js, Next.js and TypeScript, combined with a solid back-end foundation.
- Passionate about crafting accessible, seamless, and impactful user experiences across devices.
- Worked with teams ranging from startups to world-class companies like TotalEnergies.
- Valid spouse visa (no need for sponsorship).

### Technical Skills:

- **Languages:** JavaScript (ES6+), TypeScript, HTML5/JSX, CSS3/SCSS/LESS, PHP, SQL
- **Front-End Frameworks:** React.js, Next.js
- **State Management:** Redux, Context API
- **Front-End Libraries:** Framer Motion, React Router, Zod, Next-intl, Plotly.js
- **UI Libraries:** Tailwind CSS, Material UI, Chakra UI, Bootstrap, Ant Design, ShadCN UI, Radix UI
- **Testing:** React Testing Library, Cypress
- **Build Tools:** Webpack, Vite, npm, Yarn
- **Back-End & API:** PostgreSQL, Prisma, Fastify, Next.js API Routes, Node.js
- **Performance:** Lighthouse, Web Vitals, Code Splitting, Lazy Loading
- **Accessibility:** WCAG 2.1 Standards, Aria Attributes, Screen Reader Compatibility
- **DevOps & CI/CD:** GitHub Actions, Vercel, Docker
- **Best Practices:** Responsive Design, Cross-Browser Compatibility, Atomic Design, Component-Driven Development, SEO Optimization
- **Design:** Figma
- **Others:** Git, Supabase, ChatGPT, Cursor IDE, Visual Studio Code, ESLint, Prettier

### Professional Experience

**Oct 2024 – Present**

**Freelance Full-Stack Engineer**

## **Hosted Portfolio (mvagnon.dev)**

React.js, Next.js, TypeScript, JSX, CSS3, Context API, Next-intl, Framer Motion, Tailwind CSS, ShadCN, Radix UI, Webpack, npm, Node.js, Figma

- Web portfolio built to showcase my freelancer profile and my past project case studies as well as my links.
- Optimized for search engine visibility, achieving a 100/100 score in both SEO and Best Practices on Lighthouse, leveraging Next.js's server-side rendering.
- Delivers an intuitive user experience and fast performance, with a 99 Performance score on Lighthouse.
- Source code is publicly available on GitHub.

### **My roles and responsibilities:**

- Designed the entire application and UI components in Figma.
- Independently implemented the app using Next.js within less than 4 weeks.

## **Deliver Software Development Services for a Diverse Range of Clients**

React.js, Next.js, JavaScript (ES6+), TypeScript, JSX, CSS3, SQL, Redux, Context API, Tailwind CSS, Material UI, ShadCN UI, Radix UI, Cypress, Webpack, Vite, npm, Next.js API Routes, Node.js, Figma

### **My roles and responsibilities:**

- Provided full-stack development services to companies ranging from startups to international clients with a market cap of \$130+ Billion USD, such as TotalEnergies.
- Focusing on the user experience (UX) to promote a strong user-first approach.

**Oct 2024 – Feb 2025**

**Pulse Partners, Switzerland (remote)**

**Freelance Front-End Engineer & Designer**

### **Smart Interview SaaS**

React.js, Next.js, TypeScript, JSX, CSS3, SQL, Redux, Context API, Framer Motion, Next-intl, Tailwind CSS, Material UI, ShadCN UI, Radix UI, Cypress, Webpack, npm, Next.js API Routes, Node.js, Figma

- Web application empowering 5+ Swiss-based businesses to create AI-powered surveys to target efficiently their audiences with the analytics platform.
- The AI is able to injects context-aware follow-ups for every survey question, effectively doubling the amount of actionable data and improving response quality by up to 100%.

### **My roles and responsibilities:**

- Designed and developed new front-end features, including drag-and-drop question ordering and reusable presets — reducing survey creation time by ~45% and enabling non-technical users to perform complex actions. Led the unification of the builder and analytics into a single app, cutting navigation time by 50%.

- Doubled the number of fully customizable form components in the builder — including but not limited to matrix grids, tables and radio buttons. Added more customization options for the existing ones such as sliders, min, max for number inputs and reset fields for checkboxes.
- Improved UI/UX across the platform: added visual loaders, ensured full responsiveness across devices, and aligned design across all major app areas (builder, analytics, dashboard, survey) — resulting in more user retention and fewer support tickets.

**Apr 2022 – Oct 2024**

**Predictive Layer, Switzerland (remote)**

**Principal Front-End Engineer & Designer**

### **Crystal SaaS**

*React.js, JavaScript (ES6+), JSX, CSS3, Redux, Context API, Material UI, Cypress, Webpack, Vite, npm, Node.js, Figma*

- AI-based oil and gas trading tool used internally at TotalEnergies Predictive Department.
- The AI is trained via Auto-ML (Automatic Machine Learning) to give live trading signals.
- The signals are then displayed on Crystal with a powerful but intuitive web interface.

### **My roles and responsibilities:**

- Designed the whole application (10+ pages) via Figma.
- Led the implementation of the front-end from scratch mainly using React, Vite, Material UI and React Router.
- Implemented complex charts using Material UI-X. Customized them to match Figma's visuals.
- Collaborated with a back-end engineer, who provided the API, to ensure seamless integration.

### **Demo SaaS**

*React.js, JavaScript (ES6+), JSX, CSS3, Redux, Context API, Material UI, Cypress, Webpack, Vite, npm, Node.js, Figma*

- Demo web application featuring Predictive Layer's various products.
- This project was a major success, earning strong investor satisfaction and significantly boosting Predictive Layer's visibility in the Swiss market — ultimately contributing to its acquisition by TotalEnergies.

### **My roles and responsibilities:**

- Designed various demo SaaS (AI-powered trading tools, selling tools, hedging tools, and more) using Figma.

- Led the front-end implementation of those applications in React, using Vite as a building tool to ensure great performances.
- Implemented user authentication and role management using Auth0, along with custom login and registration pages — eliminating all manual user creation and significantly streamlining the onboarding process.

## **Graphical Rebranding**

*Figma*

### **My roles and responsibilities:**

Led the creation of a modern visual branding system (flat design, vivid color palette, streamlined components) using Figma.

**Jun 2021 – Apr 2022**

**Influactive, Lyon (apprenticeship – 3/5 days)**

**Full-Stack Engineer**

## **WordPress Integration**

*JavaScript (ES6+), HTML5, CSS3, PHP, SQL*

- Fully customized WordPress websites for multiple clients.
- Maintenance of those websites.

### **My roles and responsibilities:**

- Development of fully customized WordPress themes tailored to specific client requirements.
- Maintenance and development of JavaScript features (e.g., video players).

## **Cookie Consent Gestion Panel**

*JavaScript (ES6+), HTML5, CSS3, PHP, SQL, Figma*

- In-house tool allowing website administrators to independently manage cookie consent settings, including adding, removing, and configuring third-party tracking tools.
- Based on user consent, the panel dynamically injects selected cookies (Google Analytics, Matomo, etc.) into the website's header.

### **My roles and responsibilities:**

- Designed and developed the panel from scratch, enabling site admins to manage multiple cookies and control how they are presented to users through a customizable consent banner.
- Integrated tracking tools (Google Analytics, Matomo, etc.), injected conditionally based on user consent — resulting in a measurable increase in tracking coverage, up to 2x more data collected.

**Referrals:**

*Matthieu provided Predictive Layer with high standard quality product from front-end point of view. He developed several products used live by our customers to consume the forecasts produced by our company. He is serious and always deliver on time, taking into account our requirements. I would highly recommend him as a service provider for any front application needed.*

- *Mohamed Bibimoune, Head of Predictive Department – TotalEnergies Gas&Power  
Tél.: +33 6 70 84 50 80*

*I worked with Matthieu on our SmartInterview interface. Thanks to his skills, we were able to significantly improve the design and greatly enhance usability for our users.  
Thank you for everything!*

- *Matthieu Saussaye, Founder – Pulse Partners*

**Education:**

- Sep 2021 – Apr 2022  
Lyon 2 University, France  
Bachelor of Web Project Management
- Sep 2020 – Sep 2021  
Lyon 1 University, France  
Associate in Computer Software Engineering
- Sep 2018 – Jul 2020  
Polytech Lyon  
Post-Secondary Preparatory Program in Mathematics and Computer Science

**Qualifications:**

- Google UX Design Course Certificate
- Meta Advanced React Course Certificate
- IKM JavaScript Proficiency Exam (96/100 – top 5% globally)
- TOEIC Certificate (900/990)

**Language Skills:**

- English – Fluent Level
- French – Native
- Japanese – Conversational Level