Mehdi REJAB

FRONTEND TECH LEAD

React • TypeScript • Frontend Architecture

Generative AI & Agentic Development

Freelance · Available immediately • Paris area, France • www.mehdi-rejab.com
Remote: fully remote (CET, UTC+1) or hybrid (1 day on-site per week)
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PROFESSIONAL SUMMARY

Frontend Tech Lead with **10+ years of React experience, including 7 with TypeScript**, working in teams of 8 to 15 people. For more than 3 years at BNP Paribas CIB, I have been designing and building **generative AI products used in production** by many business teams: the bank's internal ChatGPT, RAG interfaces and an AI-powered document extraction tool. I work from architecture to production: standards, design systems, quality, performance and developer mentoring. I am also helping roll out agentic development in the team (Claude Code, OpenCode).

10+ years
of React experience, including 7 with TypeScript

Tech Lead
architecture and technical leadership

3+ years
of generative AI in production

3 industries
banking, SaaS and public sector

TECHNICAL EXPERTISE

Frontend & architecture	React, TypeScript, JavaScript (ES6+), Next.js, Vite, modular architecture, performance, accessibility
API integration & data	REST, SSE, TanStack Query (React Query), caching and error handling, typed API contracts in TypeScript
State management	Redux, Zustand, Jotai
Design systems & UI	Storybook, Chromatic, Tailwind CSS, Styled Components, CSS Modules, AG Grid
Generative AI & agentic development	LLMs, RAG, OCR, AI APIs, SSE streaming, Claude Code, OpenCode, agents, skills, context engineering
Testing & quality	Vitest, Jest, React Testing Library, Cypress, Playwright, visual regression testing
DevOps & observability	Git, GitLab CI/CD, Docker, Sentry

PROFESSIONAL EXPERIENCE

BNP Paribas CIB — Frontend Tech Lead

June 2023 – Present

Frontend Tech Lead for several strategic generative AI products at BNP Paribas Corporate & Institutional Banking, adopted by many internal business teams. Team of 10 to 15 people, working closely with business, data and backend teams.

- **Architecture:** lead technical scoping, make frontend architecture decisions and define development standards.
- **Mentoring:** run code reviews, help developers level up and spread software engineering best practices.
- **UX leadership:** design the user journeys of the generative AI and document extraction products.
- **Agentic development:** help roll out Claude Code and OpenCode across the team, integrating new models, building agents and skills, and defining AI-assisted development workflows.

Project genFactory — BNP Paribas CIB's internal ChatGPT

- **Multi-session chat interface:** designed and built conversation history, context management and user metadata.
- **Real-time streaming (SSE):** rendered LLM responses progressively, cutting perceived latency by several seconds.
- **RAG integration:** displayed citations and sources in modular React components, so users can verify every answer.

- **API integration:** consumed backend and LLM APIs with TanStack Query, handling caching, loading and error states, and typing exchanged data in TypeScript.
- **AI prototypes:** contributed to proofs of concept for semantic classification and AI workflows with the data and backend teams.

Project docFactory — AI-powered document data extraction

- **Extraction interface:** built the interface to analyze PDFs, images, contracts and tables with dedicated AI models (OCR and extraction).
- **Extraction visualization:** highlighting, overlays and before/after comparison of extracted areas, significantly reducing document validation time.
- **End-to-end workflow:** delivered the full flow, from import and AI prediction to human validation and JSON or Excel export.
- **Performance:** optimized rendering of large multi-page documents to keep the interface smooth.
- **E2E testing:** end-to-end tests with Cypress, with an ongoing migration to Playwright.
- **Data modeling:** helped define the data model shared between the frontend and the extraction models.

Tech stack: React, TypeScript, TanStack Query, Jotai, Vite, Vitest, Cypress, Playwright, LLM, RAG, SSE, OCR, AG Grid, Claude Code, OpenCode, Sentry, Docker, GitLab CI.

Hubside — Lead Frontend Developer

October 2019 – May 2023

SaaS company: website builder platform for individuals and businesses. Team of 8 to 9 people, coordinating with a second team of the same size.

- **Technical leadership:** frontend lead of the team; defined standards, ran code reviews, mentored developers and spread best practices.
- **Core product components:** designed and shipped 50+ shared UI components, including the WYSIWYG editor, galleries and dynamic forms.
- **Scalable architecture:** modularized the codebase, applied code splitting and optimized performance on critical user flows.
- **Design system:** led the design system (Storybook, Chromatic) and automated visual regression testing, reducing UI regressions in production.
- **Quality and observability:** set up unit and functional testing (Jest, React Testing Library) and application monitoring with Sentry.

Tech stack: React, TypeScript, Redux, Next.js, Node.js, Storybook, Chromatic, Jest, RTL, Sentry, Git.

BNP Paribas (BP2I) — React Developer

October 2018 – September 2019

Redesign of the group's internal infrastructure management portal.

- **Frontend development:** built React components (Hooks, React Router v4) with Redux state management.
- **Quality and performance:** added unit and snapshot test coverage with Jest and optimized frontend performance (Webpack, Babel).

Tech stack: React, Redux, ES6+, Jest, Webpack, Babel, React Router v4, Git.

Klee Group — React Developer (permanent contract)

February 2016 – September 2018

Client: French Civil Aviation Authority (DGAC). Business web applications.

- **Delta:** airport tax calculation and management system.
- **Alphatongo:** real-time air traffic monitoring and analysis.
- **Calypso:** coordination and planning of flight operations.

Tech stack: React, Redux, ES6, Jest, Webpack, React Router v4.

EDUCATION & LANGUAGES

Education	Master's degree in Computer Engineering (Diplôme d'ingénieur) — National Engineering School of Sousse (ENISo), Tunisia, 2016
Languages	French: native • English: professional working proficiency (international collaboration, technical documentation)
Interests	Competitive tennis (French ranking 15/5)