

Jean-Luc ROBERT

34 years old

Paris, France, french citizen, possible country relocation.

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Lead Full-Stack Engineer (React/Node) – 10+ years | Software Architecture & Product-Driven Development

Professional skills

I design, build and scale web platforms end-to-end, from architecture to delivery, with strong impact on performance, reliability and product outcomes.

Experience in fast-paced environments (startups & enterprise), mentoring teams, improving dev velocity, and driving architectural decisions.

Full-stack & Architecture

React, Next.js, Node.js, NestJS, TypeScript, GraphQL, microservices, modular monolith, Clean Architecture, DDD, Hexagonal, Event Sourcing + CQRS, TDD.

Cloud & DevOps

AWS (Lambda, CDK, API Gateway, Cognito, DynamoDB, S3, EC2, CloudFormation), Docker, CI/CD (GitLab-CI, TeamCity), GCP, Vercel, monitoring & observability.

Storage & Messaging

PostgreSQL, MySQL, MongoDB, DynamoDB, DocumentDB, Redis, Kafka (event-driven systems), TypeORM.

Front-End Engineering

React, Next.js, Vite, Redux, Zustand, TanStack Query, Styled-Components, Material UI, SEO optimization, performance tuning.

Product & Collaboration

Close work with PM/PO, feature scoping, UX feedback, technical explorations, documentation, mentoring, code reviews, delivery in fast-paced environments.

AI & Tools

Prompt engineering (ChatGPT, Claude), Cursor, Midjourney, ElevenLabs, Figma, Zeplin, Git, Linux/macOS.

Professional experience

echosens

Senior fullstack JS Developer
(Medical Devices / Cloud Platform)
August 2023 - July 2025
Freelance

Echosens is an international company that build and sell the medical device FibroScan to help healthcare professionals to manage liver health and improve patient outcomes.

Worked in the Cloud Engineering team (9 devs, 2 architects) building and improving the cloud ecosystem around **FibroScan**, a worldwide medical device used to assess liver health. Strong constraints: medical-grade security, compliance, multi-tenant architecture, performance, and data integrity.

Built cloud platforms around FibroScan used worldwide by clinicians, researchers and operators. Strong medical constraints (security, compliance, high data integrity) and large-scale real-world usage.

Activities:

- **Led the refactoring of the core Liver Health Management application** (JavaScript → TypeScript, React/MUI upgrade, Cognito/Auth0 migration).
- **Designed & built from scratch “LHM Research”**, a React/Node.js application enabling researchers, operators and sponsors to create, manage and monitor clinical studies (AWS Lambda, DynamoDB, DocumentDB)
- **Implemented granular medical data access control** using Euris + RBAC to enforce strict regulatory constraints (medical vs non-medical access).
- **Mentored developers** and helped raise the team’s TypeScript, Node, React and architecture maturity.
- **Improved front-end performance significantly** by reducing API calls, cutting bundle size, optimizing rendering and migrating from Webpack to Vite for development.
- **Optimized serverless back-end performance** (connection pooling, design patterns, smarter Lambda cold start strategies)
- **Ensured high software quality** through testing (Jest/Dynalite), CI/CD (TeamCity), code reviews, pairing, and consistent coding standards.
- Delivered pixel-perfect UIs with CSS3, Material UI, and Figma, collaborated closely with designers and POs to enhance UX.
- Integrated medical data synchronization flows with **Mirth Connect (HL7)**, handling complex data formats and consistency rules.

Stack : React, TypeScript, Node.js, AWS Lambda, DynamoDB, DocumentDB, API Gateway, CloudFormation, Auth0/Cognito, Jest, Vite, Figma, HL7 (Mirth Connect), CI/CD TeamCity.



CTO & Co-Founder
(Early-stage Startup)
April 2023 – August 2023

Co-Founder

At Chappygo, we were 4 founders, I created the whole app for the business.
A web application allowing users to create and customize their own chatbot.

As the only technical founder, I was responsible for the full architecture, development, DevOps and product iterations.

I built the **entire technical platform** from 0 → production in a few months.

Activities:

- Designed the entire backend architecture using **Event Sourcing + CQRS**, Kafka and multi-DB persistence (MongoDB + PostgreSQL).
- Built an event-driven microservices platform with optimized projections and async workflows.
- Delivered the full front-end (Next.js, React, Vite, Styled-Components) with strong UX, SEO and performance focus.
- Integrated the complete NLP pipeline (Kafka ↔ Python/NLP API).
- Set up all DevOps (CI/CD GitLab, testing, Docker-Compose) and a scalable monorepo.
- Led product iterations, UX decisions and early user testing..

Stack: Next.js, React, Vite.js, Styled-Components, NestJS (Node.js), Apollo GraphQL, Kafka, Redis MongoDB, PostgreSQL, TypeORM, Docker-Compose, Jest, TypeScript, GitLab-CI.



www.castordoc.com

Senior fullstack JS developer

(Data catalog)

October 2022 – March 2023

Freelance

At Castor (now Catalog), in Paris (17th arrondissement, France).

Castor is a company that sells a data catalog designed for mass adoption across a whole company.

We worked in Agile method (Scrum, sprint of a week), in an english friendly environnement (some employees are from USA, UK and Germany).

I joined the technical team (9 fullstacks developpers, 7 data scientists and a devOps) as a the only freelance fullstack developer.

We aimed to meet the growing challenge of data visualization by combining performance and ease of use.

Activities:

- Improving the performance of continuous integration by optimizing the execution of unit tests (building JS file ahead of CI, adapting TS config files).
- Worked on high-scale data catalog challenges (Snowflake, Redshift, Looker): search performance, data lineage, CI speed optimisation.
- Improvement of the management of data entities:
 - Filters/search optimizations on various kind of data.
 - Managing the intelligence that updates several entities in few operations.
 - Metrics integration management (with Snowflakes, Lookers, Redshift,...)
 - Data Export (CSV, Excel, Google sheet) and conversions.
- Update of the migrations, fixtures and database structure for the synchronization with external data.
- UI fixes:
 - Data synchronization error (cache strategy implementation).
 - CSS (general display, event behaviors, modal integrations, responsive).
 - Lineage graph updates and fixes.
 - Scrolling, display and browser specific issues.
- Writing technical explorations (i.e advanced technical and collaboratives documentations).

Stack : React JS, Jest, Express (Node JS), React hooks, Apollo GraphQL, SQL, HTML5, CSS3, Prettier, ESLint, TypeScript, TypeORM, DBEaver, Google Cloud (GCP), Notion, Gitlab, Vanta.



MINISTÈRE DE L'INTÉRIEUR

*Liberté
Égalité
Fraternité*

French ministry of the interior

Lead developer React/Node JS

(European border control)

April 2020 – September 2022

Freelance

At the French Ministry of the Interior, DSIC department, in Paris (France).

Returned to a larger multi-disciplinary team to deliver the **EES (European Entry/Exit System)** - a major EU-wide modernization of border control processes.

Massive technical and organizational challenges : strict real-time constraints, heavy regulatory rules, multi-source data flows, high security requirements, and large-scale operational usage.

Activities :

- **Led the redesign and extension of the CTF border control application** to support EES workflows (biometrics, identity verification rules, new EU processes).
- **Implemented new data models**, validation logic and cross-database integrations to meet European compliance rules
- **Worked in close collaboration with architects and business teams** to translate complex legal requirements into reliable technical flows
- **Upgraded the full stack (React 16 → 17, Redux, internal tools)** to support higher volumes, edge cases, and new user journeys
- **Improved performance & reliability** in high-pressure operational environments (border checkpoints must not break → zero downtime target).
- **Mentored junior developers** and drove best practices (design patterns, modular architecture, clean code, testing).
- **Designed & delivered internal tools** including a statistical control application (Python/PySide2) used for operational decision-making
- **Enhanced the existing data simulator**, enabling realistic scenarios for EES workflows and performance tests
- Delivered major features under strict deadlines and compliance constraints.

Stack : React, Redux, Node.js, Python (PySide2), SQL/NoSQL DBs, ES6+, Jest, design patterns, large-scale operational systems



Ermes (Redpill Group)

<https://ermes.ai>

Lead frontend developer

(AI powered advertising strategy)

May 2019 – October 2019 (6 months)

Freelance

At Ermes (Redpill subsidiary), in Paris (17th arrondissement).

Ermes is a company that has acquired millions of user data through various company/data purchases. It sells an all-in-one solution based on artificial intelligence that analyses this data in different sectors (demographics, automotive, e-commerce, video games,...) to enable its customers to more effectively direct their advertising campaigns and/or study their advertising impact according to spatial-temporal or social demographic criteria.

In an initial team of 7 developers (including 3 interns) - then 9 developers - I was in charge of conceptualizing the application so that it would be scalable and understandable, even in the event of a team change or replacement.

Scrum methodology, 2-week sprint.

Activities:

- Upgrading of skills in React JS for trainees.
- Implementation of the application architecture, using module development for better scalability.
- Authentication via Amazon Web Service (AWS), GraphQL data server.
- CSS3 compliant integrations (models provided by the product owner).
- Integration of the various Front side calculations of the results and filters from the API data managing AI.
- Supervision of the tasks to be carried out by the front team, delegation according to the skills of each person.
- Implementation of the 4 major modules of the application: Funnel, Insight, Data and Activation.

Stack : React JS V16.9, React hooks, AWS, Node JS, DynamoDB, Axios, GraphQL, GraphQL hooks for React, HTML5, CSS3, Prettier, Eslint, Cross-Env, (windows), LocalStorage, Babel, ES6, ES7, Normalize CSS, Moment JS.

→ After mission: They offered me to become an employee, but I refused because I wanted to visit the USA with the idea of working over there



MINISTÈRE DE L'INTÉRIEUR

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French ministry of the interior

FullStack developer React/Node JS

(National border control)

March 2018 – March 2019

At the French Ministry of the Interior, DSIC department, in Bercy (France).
Redesign, from scratch and in client mix, of the application of border controls called CTF.

In a structure detached from the DSIC (working in SCRUM method) composed of 3 to 8 developers, a product owner (PO), a scrum master and a project manager and a business developer for communication between the hardware (document reader, fingerprint reader) and the App.

I was in charge of leading the team in the front part of CTF (from scratch) using DDD and TDD.
Worked in a fast-paced, startup-like autonomous team inside the Ministry.

Activities :

- Trained and coached 2 developers on React best practices and development standards (Git flow, patterns, DDD, TDD with Jest/Saga).
- Worked in a fast-paced, startup-like autonomous team inside the Ministry
- Defined architecture and modularization of a complex application (micro-app structure, reducers, sagas, container/component model).
- Implemented adaptive UI with Flexbox, Grid, and media queries for multi-device support (portrait/landscape).
- Built optimized interactive features: document scanner loader, WebSocket data injection, IndexedDB historization, and animations (CSS transform, Web Workers).
- Improved performance by switching from base64 to blobs, delegating heavy processing to HTML5 Workers, and reducing local storage overhead.
- Integrated back-end APIs (Java) with Redux-Saga using Axios, ensuring controlled responses (race, delay).
- Delivered key features such as PDF export (JsPDF + HTML2Canvas), error handling, and business-rule automation (smart database selection, auto-cleanup).
- Ensured maintainability and collaboration with setup of Prettier, ESLint (Airbnb config), documentation (Markdown + Mermaid), and story point estimation.

Stack: Microservice architecture, Node js, Express js, React, Redux-Saga, Axios, HTML Web Workers, WebSockets, JsPDF, Jest, Enzyme, Node js, IndexedDB.

Older experience (prior to 2018):

- **Prisma media**, Paris, France (freelance, 01/2018 → 02/2018) | <https://www.prismamedia.com/>
 - Apps providers for various french media companies (Closer, Femmes actuelles)
 - Frontend developer :
 - Created New interface - Bug resolutions, - Data management – GraphQL implementation
Stack : *React, Redux, Redux, Redux immutable.*
- **Cross quantum**, Paris, France (freelance, 09/2017 → 01/2018) | [lafinbox website](#)
 - Develop a mobile App « La Finbox » for managing finance and wealth
 - Frontend developer:
 - Improved data algorithms for comparison and display, - added data generator, - bug resolutions - added responsive, - added Google tracker - redesign.
Stack: *React, Cordova (Android and IOS), Flux.*
- **Possible future** (ex French Bureau), Paris, France (freelance, 06/2017 → 09/2017)
 - Consulting company specialized in solving any kind of big engineering challenges.
 - Fullstack JS Developer:
 - **Architected** and implemented a **real time 3D construction** app (as a POC) with modelizations - in-app invitation/permissions managements - secured authentication – documentations.
Stack BE: *Swagger, JWT, Hapi js, Sendgrid, Mongoose, Joi Validation, Inert and Vision, Zeit.*
Stack FE: *Redux, Marx css, FlexBox css, MapBox GL (used by Snapchat), Babel, WebPack, Now.*
- **Atelier des chefs**, Paris, France (apprentice, 01/2016 → 01/2017) | <https://www.atelierdeschefs.fr>
 - Company specialized in the sale of cooking courses, especially online (2 million unique visitors per month).
 - Fullstack JS developer:
 - Gift card dematerialization (**increasing the gift card sales by 60%** during Christmas period) - added Paypal via Ingenico - design the B2B pages closely with the design director - **SEO optimization** via schemas and html optimizations.
Stack : *Zend PHP, Ingenico, JQuery, Javascript.*
- **N-Sens**, Paris, France (apprentice, 01/2015 → 01/2016) | <https://www.n-sens.com>
 - SSII specialized in the creation and maintenance of web sites for individuals/companies
 - Fullstack JS/PHP developer :
 - Worked on various web apps (<https://www.meilleurescpi.com>, <https://www.atelierdeschefs.fr>, <https://www.beaute-futee.com>, Business incubator internal app).
Trained by a Senior software engineer) adding: payment system - database management - internal search engine – migration – **e-commerce** app – **real estate** app – monthly **services subscriptions**
Stack: *Full-calendar JS, Symfony2.7, Express JS, Doctrine 2, Cake PHP, Bootstrap 3, API Bitbucket.*
- **Erashome**, Paris, France (apprentice, 09/2014 → 11/2014) | <http://www.erasmusofparis.fr/>
 - Erashome provides an easy way to students who are willing to live in Paris by providing housing solutions
 - Fullstack JS/PHP developer :
 - Created admin dashboard, implemented search, implemented users forms and data validations
Stack : *Git, Zend framework, JQuery, Css, HTML*

Formations

2017 (January):

- **Master's degree (work-linked training)** in information system administrator, web developer option at **IPSSI**, Paris, France.

2014 :

- **Backend Web Developer** Training at IPI (IGS Group) in Paris, France.
- **Developer stage**, 4 weeks at **Erashome**.

2012 :

- University degree in technology : **Electrical Engineering and Industrial Computing** in Paris, France.
- Stage: 4 months at **Qpark**, using Dotnet (.Net) via monodevelop (Linux), in Paris, France.

2009 :

- **Bachelor's Degree** (baccalaureate) in Electrical Engineering science, **with honors (16.3/20)**, in Paris, France.

Languages

French – native.
English - fluent.

Activities/Recreation

Jazz music

Wes Montgomery, Django Reinhardt

Travelling

Haiti, Ethiopia, Suede, Spain, USA, UAE (Dubai).
Sponsors of “Harar yager lij charity” (Ethiopia orphanage).

2019–2020 : 3-month tech exploration trip in the USA (San Francisco & NYC) — discovered the startup ecosystem, attended meetups, explored opportunities abroad.