

Julien Moulin

Fullstack Tech Lead | Product Architecture & Applied AI

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Summary

Tech Lead and Product Architect with **20 years in software development** and **10 in technical leadership**. From design to production: business applications, web platforms, systems integration and applied AI.

Experience with Autodistribution, FDJ, Vallourec and Renault. Cross-team management of **5 teams (~40 people)** at FDJ. Developer and trainer combining hands-on delivery, team leadership and knowledge sharing.

Skills

Development: TypeScript, React, Next.js, NestJS, Node.js, PayloadCMS, PostgreSQL, MongoDB

Architecture & delivery: APIs, Kafka, design systems, Turborepo, NX, Storybook, CI/CD, Docker, Terraform, AWS

Applied AI: RAG, agents, n8n, Mistral, ChatGPT, LM Studio; product vision and technical leadership

Experience

Fullstack Tech Lead - Product Architect

Autodistribution / Groupe PHE

09/2024 - present

Arcueil, France

Architecture and coordination of **5 engineers, 1 QA and 3 product owners**: business platforms, site factory, middleware and AI automation.

- **CMS foundation and site factory built in around 12 months**, then reused for the business catalogue (**around 8 months**) and subsequent projects (**1 to 3 months depending on adaptations**). Shared components and plugins built with PayloadCMS, Next.js and Storybook.
- AD partner garage platform (PayloadCMS) integrated into the existing application ecosystem
- Bodywork Catalogue: European product reference (single source of truth) feeding multiple ERPs
- Designed and developed **middleware implemented as a Kong plugin** for XML/JSON conversion and integration with **Infor M3 and Odoo** ERP systems. React / NestJS business applications in a monorepo.
- Cursor standards for PayloadCMS / NestJS; multi-Jira Agile tracking and automated Confluence reports.

Founder - Product & AI Architect

Supralab

01/2021 - present

Bazainville, France

Founder of Supralab, the studio behind MomentLabs: software and hardware products for event experiences.

- MomentHub, MomentShot, MomentTV: operations, guest participation, and live content display
- MomentPhone / Tablet / Booth: capture, AI transforms, and video messages
- End-to-end ownership: product vision, architecture, UX, web/mobile/TV development, AI and hardware industrialization

Engineering Manager & Tech Lead

FDJ United

11/2020 - 06/2024

Boulogne-Billancourt, France

Technical leadership followed by cross-team management of **5 teams (~40 people)** on sports betting platforms.

- **Release process reduced from 3 days to around 2 hours**, including preparation, validation and deployment. Tooling: SemVer, changelog, OAS3 / SwaggerHub and a local simulator.
- **Parions Sport rebuilt in one year** with the teams, including the Point of Sale website: SSR, Kafka, BFF, workers and contributor CMS.

Tech Lead & Architect

Vallourec

04/2019 - 10/2020

Boulogne-Billancourt, France

Group digital modernization: replatforming, design system, e-commerce and CMS. 2 teams France / Brazil.

- Full e-commerce platform (API Platform + React) and site-generation CMS (Angular SSR)
- Cross-app Stencil design system to unify internal product interfaces
- AWS serverless (Lambda), GitLab CI/CD, Terraform, multi-environment delivery
- Hiring and product organization; FR / BR collaboration primarily in English

Team & Project Lead

Blueanchor

01/2018 - 10/2020

Paris, France

Technical leadership in an IT services firm: automation (Node.js, Docker, AWS Lambda), internal training and client delivery; teams of around 6 to 7 people.

Frontend Lead

Renault Digital

07/2017 - 07/2018

Boulogne-Billancourt, France

Rebuilt an Excel business tool as an Angular application; optimized performance for large datasets. 2 teams in France / India.

Fullstack Lead

ClickEat SAS

06/2016 - 06/2017

Paris, France

Symfony API with JWT, Ionic iOS/Android applications, continuous integration and recruitment; team of 5.

Web Instructor

LinkedIn Learning & training

01/2014 - 06/2017

Remote / Paris

Around 40 video courses (Angular, React, Vue, Node, Symfony); sessions for M2i, Orsys, ministries, Capgemini.

Senior Developer / PHP-Symfony Lead

SensioLabs

10/2011 - 06/2014

Clichy, France

E-commerce and institutional platforms (INSEAD, La Plateforme du Bâtiment), PeopleSoft integrations and PDF generation. Internal PHPUnit training and recruitment involvement.

PHP Developer & Trainer

Formeor Design

09/2006 - 09/2011

PHP development for end clients; delivered office software training throughout France.

Computer Centre Manager & Digital Skills Instructor

Mairie de Verneuil-sur-Seine

09/2002 - 09/2006

Managed the computer centre; delivered digital skills workshops for older adults and B2i digital literacy training in schools.

Education

Educatel, Programmer Analyst (DEUG)

2000 - 2002

SensioLabs, Symfony (1.2 & 2+)

2008 - 2012

Paris

Languages

French: native / English: professional working (international teams, documentation)