Jérôme Macias

Staff Software Engineer

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SUMMARY

Over 20 years of experience taking platforms from "it works" to "it holds up in production": serverless event-driven architectures, observability, engineering standards.

SKILLS

Backend

NodeJS · TypeScript · Serverless · and also PHP · Python · Ruby · Bash

Frontend

ReactJS · MUI · React Native · and also VueJS

Local / CI / CD

Docker · Makefile · GitHub Actions · AWS CodePipeline · Eslint / Husky

Infra & Cloud

PostgreSQL · AWS Lambda · DynamoDB · EventBridge · Step Functions · SQS · S3 · SES · Terraform

Observability

Datadog · New Relic

AI

Claude Code · CodeRabbit

WORK EXPERIENCE

Staff Software Engineer at Skello — Apr 2025 - Current

- Extracted user account management from the monolith into a dedicated service: decoupled the historically conflated employee and user-account concepts, and laid the technical foundations for a user to belong to multiple organizations
- Brought the serverless stack's observability to a full Datadog pipeline: metrics, distributed tracing, error tracking linked to GitHub, endpoints mapped to the OpenAPI definition, SLOs and functional monitors
- Drove the decision to migrate the frontend to React: investigated the topic, convinced the CTO, aligned the Staff group through workshops and co-authored the migration guidelines
- Raised backend development standards: TypeScript, unit / integration tests and code quality

Staff Software Engineer at IAD - Freelance — Dec 2020 - Feb 2025

Member of the Core Team, Ops role. Mainly working remotely

- Implementation of continuous integration and hot deployment on legacy applications
- Set up Packagist and integrated an external translation tool
- Participated in the design and implementation of the new software architecture
- Implemented Serverless projects for external and internal communication within IAD’s information system in collaboration with business, frontend, backend, data engineers, and ops teams
- Non-exhaustive list: interface with the Bloctel service, interface with the Salescreen tool, interface with the Batch tool, PDF generation service, diffusion engine
- Revamped the entire workflow for property listing diffusion, redefining business requirements with the product team and supporting the implementation of the new diffusion engine towards portals, including optimization of costs and performance
- Shifted from an import/export model to an event-driven system for real-time broadcasting (on supported portals only)

Staff Software Engineer at Altice Media - Freelance — Jan 2019 - Sept 2022

- Technical design and conception
- Code review, team skill-building, and recruitment support
- Development/DevOps, ensuring architecture, environments, and technical structuring
- Mainly remote work

Engineering Manager (hands-on) at Altice Media — Jan 2018 - Dec 2018

- Initiated the complete overhaul of the BFMTV portal

- Designed the architecture and bootstrapped the project on a Node.js / ReactJS / AWS stack for the new CMS and front-end sites
- Set up tooling (GitHub, Travis, Browserstack) and the team's working methodology
- Broke down technical tasks and ran agile ceremonies
- Managed the CMS development team and recruitment
- Collaborated with the other technical and product teams
- Development and DevOps tasks

Senior Software Engineer at Éditions Croque Futur

Jan 2017 - Dec 2017

- Stabilized and enhanced robustness of Challenges.fr and Sciencesetavenir.fr (relevant application logs, server monitoring with alerting, etc...)
- Optimized front-end (asynchronous AJAX calls, JavaScript), back-end (Node.js and Drupal applications), and infrastructure (configurations and updates)
- Developed pages and import scripts for the results of the 2017 French elections (Presidential and Legislative) and transitioned the websites to HTTP/2 (HTTPS)

CTO at Kpsule

May 2016 - Dec 2016

- Renewed the technical teams, redesigned the Back-Office (ReactJS), improved redirect technology (JavaScript ES6), advertising creative components (video, store locator), and used canvas (with Animate CC) for rich media creatives
- Contributed to the new business model, new offers, and significantly improved KPIs for the new creations

Senior Software Engineer at Marmelab

Aug 2013 - Apr 2016

- Open source projects and blogging about AngularJS, ReactJS, and Silex
- Various short-term missions for Canal+, AXA Group Solutions, and 1859Cloud: NodeJS API, ReactJS or AngularJS front-end, PostgreSQL or MongoDB database, ng-admin admin (1 year)
- Improvement and optimization of a product for SensioLabs, using Symfony2, Doctrine, PostgreSQL, RabbitMQ, BackboneJS, and Bootstrap (1 year)

Software Engineer at L'Express - Bilendi - IAC - SensioLabs - Netonomy

Sept 2003 - Jul 2013

- PHP/Symfony background at SensioLabs, Groupe L'Express (lead on the Ocari CMF, high-traffic websites), Bilendi (Zend Framework / Postgresql) and Inter Action Consultant (in-house PHP framework / Mysql)

EDUCATION

Computer Science Application Developer option at BTS

Sept 2003 - Jul 2006

Science Series General at Baccalaureate

Sept 1999 - Jul 2003

PUBLICATIONS

Jest, The React.js Unit Testing Framework, In Practice in Marmelab Blog — Jun 2015

DotScale 2015 Conference Summary in Marmelab Blog — Jun 2015

[Video] ArchitectureTree: Visualize Software Architectures In Your Browser in Marmelab Blog — Jan 2015

Silex Multifetch: Multiplex Requests To Your PHP API Into A Single HTTP call in Marmelab Blog — Jan 2015

Microrest.php: Generate A RESTful API On Top Of Any Relational Database, Powered By PHP And Silex in Marmelab Blog — Jan 2015

Two days to write my first Protractor tests on the ng-admin AngularJs module in Marmelab Blog — Dec 2014

Une commande tree plus efficace grâce au Go in Marmelab Blog — Oct 2014

LANGUAGES

French
Native speaker

English
Professional working