Louis Emard

FullStack Developer | Devops

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La Rochelle - France   Mainly remote   emard.louis@icloud.com

Professional Profile

Fullstack developer specialized in React and Node.js, I work on web projects with high technical requirements, particularly in contexts where reliability and ease of use are critical.

Before becoming a freelancer, I spent 7 years in a company developing embedded systems for marine navigation.

Today, I support startups and SMEs with their web development, application redesigns, and automation or infrastructure projects.

Recent Projects

Embedded Browser Interface   **Madintec**

- Maintenance, evolution, and refactoring of an embedded React UI, ensuring stability and longevity across multiple hardware generations
- Development of a Node.js server for real-time control and management (WebSocket), providing reliable reactivity in critical navigation scenarios and instant visibility into vessel status
- Design of a simplified interface (UX/UI, build, compatibility with legacy browsers), enabling broader adoption by non-technical users
- Proven reliability on round-the-world voyages, demonstrating system robustness and enhancing both safety and skipper confidence

Shared Docker Development Environment   **Meta Video**

- Implementation of a shared Docker-based development environment for a product team, ensuring reproducibility and production parity
- Initialization scripts providing significant onboarding time savings and error-free setup
- Service orchestration and restart policies for stable launches and easier diagnostics
- Externalized, versioned configuration contributing to reproducible builds, smooth deployments, and improved traceability through centralized logging

Cloud Integration and Payment Solutions   **Meta Video**

- Implementation of online payments via Stripe for a video platform, including database refactoring, API adaptation, and AWS stack adjustments, enabling content monetization
- Design and architecture of a higher-level API with an adapter system, making the platform extensible to other payment providers beyond Stripe
- Enhancements to a live streaming and VOD conversion AWS stack, with added subtitles and optimized video pipeline, improving both accessibility and service quality

Professional Experience

Fullstack & DevOps Developer (Freelance)   **2024 - Present**

- Fullstack development
- Infrastructure deployment
- API architecture

Fullstack Developer   **Madintec**   **2018 - 2025**

- Design of critical interfaces (React/Node.js) for an embedded autopilot system
- WebSocket, real-time processing, and strong browser compatibility constraints

Education

Master's Degree in Computer Engineering	**2018 - 2021** Specialization in Media and Digital Technologies	La Rochelle / Angoulême

Compétences

Frontend: ⚛ React, 🟧 HTML5, 🔵 CSS3, 🟨 JavaScript / 🟦 TypeScript
Backend: 🟢 Node.js, Express, 🦅 WebSocket, 🐘 PHP, 🐹 Go
DevOps / Infrastructure: 🔶 Git, 🐳 Docker, 👨 Jenkins, Linux, ☁ AWS
Outils: Stripe, CI/CD, Copilot/Claude Code
Languages: French (native), English (professional and technical)

Soft Skills

Rigor, autonomy, adaptability in critical contexts, and strong understanding of business objectives