

# Marian-Iulian Miloiu

## Frontend Developer | Next.js | React | TypeScript | Multi-site CMS | Performance

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## Summary

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Frontend engineer who ships measurable wins on production Next.js (App Router) and React 18 apps. Cut mobile LCP by 30-50% across a five-site UK/IE automotive network, drove AI-tooling adoption (Vercel AI SDK, OpenAI, Gemini) on an in-house B2B SaaS, and shipped 3 mobile/PWA MVPs solo (Capacitor, Supabase, RevenueCat, on-device ML). 5 years at one studio across 5 verticals and 8+ client engagements (automotive, fuel/EV, rail, leisure, recruitment SaaS). Strong on Next.js App Router, TypeScript, Apollo GraphQL, headless CMS (Umbraco / Contentful), Web Vitals (LCP / INP / CLS), GTM/dataLayer, and WCAG 2.2 AA practices.

**Open to:** Senior Frontend roles - remote (EU/UK) or hybrid in Bucharest, permanent or long-term contract.

## Work Experience

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### Canary Technology Innovations - 5 yrs, 8+ client engagements, 5 verticals

Bucharest, Romania (remote) | January 2021 - Present

#### Senior Frontend Developer | 2024 - Present

- Led the mobile performance initiative across the 5-site UK/IE consumer brand network (LCP -30 to -50%) under live client release cadence, and owned QA/experimentation tooling (Playwright, BrowserStack, VWO).
- Maintained accessibility infrastructure across the network - focus-trapped modals with scroll lock and focus restoration, custom screen-reader announcer with polite/assertive live regions, and keyboard-navigable mega-menu (Arrow / Home / End / Esc).
- Mentored 2-3 juniors and drove the team's AI-assisted engineering adoption - prompt and review patterns rolled out across the team's monorepo.

#### Frontend Developer (Mid) | 2022 - 2024

- Co-authored the form-engineering pattern reused across 20+ multi-step modules and owned features end-to-end across automotive, fuel/EV, leisure, and rail.
- Contributed to GraphQL and Apollo design and CMS integrations (Umbraco, Contentful, WordPress).

#### Frontend Developer (Junior) | Jan 2021 - 2022

- First developer role. Onboarded onto the React/Next.js and TypeScript codebase and shipped to production via AKS, Vercel, Cloudflare Workers, and Azure DevOps pipelines.

## Featured Projects

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### Top Japanese Vehicles Brand - multi-vertical UK and Ireland network

2022 - Present

Long-running engagement across five sibling Next.js and Umbraco sites for a global Japanese vehicles brand: Auto (UK and Ireland), Bikes UK, ATV UK, Marine UK, Marine Ireland.

- Multi-site Next.js, Umbraco, and Apollo GraphQL platform with polymorphic page-type GraphQL routing, a dynamic module-loading registry, and a Redis-backed server-side query cache; deployed to multi-replica AKS production.
- Designed and maintained a 15+ event GTM and dataLayer taxonomy across configurator, dealer, and booking funnels - full e-commerce-style tracking with consent-gated submissions.
- Form engineering: multi-step React Hook Form, Yup, and reCAPTCHA flows across 20+ form modules (booking, brochure request, recall, business enquiry, EV pre-registration, send-to-dealer).
- Maintained CSP rules and orchestrated 20+ third-party origins (Contentsquare, Freespee, StoryStream, GTM, ad/social) under OneTrust consent gating.

- Mobile image fetch-priority and breakpoint-tuned quality for LCP wins; accessibility patches; schema markup for SEO across verticals.
- Playwright E2E (auth and shared components), BrowserStack real-device QA, and VWO A/B tests on CTAs/layouts/hero variants with product-led hypothesis design.

**Technologies:** Next.js, TypeScript, Apollo GraphQL, Umbraco, Redis, SCSS Modules, GTM, Contentsquare, Freespee, OneTrust, Azure DevOps, Azure Kubernetes Service

### **B2B Recruitment SaaS Platform**

2024 - Present | In-house product.

Multi-tenant recruitment and shortlisting SaaS with AI-powered CV tooling, deployed to Cloudflare Workers.

- End-to-end feature work on the web app: auth, billing, team accounts, admin, candidate and shortlist flows.
- AI-tooling-augmented engineering across the codebase; Vercel AI SDK with OpenAI and Gemini integrations for CV parsing, form generation, and editor flows.
- Internal package work across the monorepo (cv-form, cv-parser, ui, billing-gateway).

**Technologies:** Next.js (App Router), TypeScript, Turborepo, Supabase, Vercel AI SDK, Cloudflare Workers, Tailwind, PostHog, Stripe

### **B2C CV Builder Platform**

2023 - 2024 | In-house product.

Consumer-facing SaaS for building, editing, and exporting CVs - handmade by the team, no AI scaffolding.

- Frontend feature work across the editor, preview, and template system.
- Account flows, subscription wiring, and onboarding UX.
- PDF export pipelines and template-to-document rendering.

**Technologies:** Next.js, TypeScript, Supabase, React PDF, Tailwind, Stripe

### **UK Overnight Rail Service - booking and content platform**

2024 - Present

Public-facing site for a UK to Scotland sleeper-train operator - travel-domain UX with multi-night journeys, cabin classes, and account-driven booking management.

- Built and integrated new Umbraco-driven content modules into the existing Next.js codebase.
- Shipped UI features and visual updates across booking and content pages - routes, fares, cabin selection, and account flows.
- Read existing C# and Razor backend components to wire up new doc types and partial views correctly; accessibility patches and visual polish.

**Technologies:** Next.js, TypeScript, Umbraco, GraphQL, SCSS Modules, GTM

### **UK Leisure and Holiday Resort - marketing and booking site**

2024 - Present

Public-facing site for a Welsh national-park resort brand - family-leisure UX with lodges, activities, spa bookings, and seasonal campaigns.

- Created new frontend modules and refined existing ones across the marketing site - lodge browse and filtering, activity and spa modules, seasonal campaigns.
- Integrated FE components with Umbraco doc types, partial views, and content models.
- Cross-browser and cross-device testing, accessibility patches, and visual polish across the funnel.

**Technologies:** Next.js, TypeScript, Umbraco, GraphQL, SCSS Modules, GTM

### **Earlier client work**

2021 - 2024

Production builds across automotive, fuel and EV networks (multi-site with Contentful and multi-language localization), a fuel-station-locator web app (Google Maps API, autocomplete and filter trays), EU-funded international projects, and legacy module work (.NET, Razor, jQuery) for healthcare and education clients.

## Side Projects

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### GeniusFit AI - AI fitness and nutrition coach (iOS, Android, public landing)

2025 - Present

Solo prompt-engineered MVP shipped end-to-end. AI meal scan (plate and label), workout templates with smart tracking, AI nutrition coach (chat), longevity insights (HRV, RHR, sleep, biological age). Public landing at geniusfit-ai.com (i18n EN, ES, FR, RO).

**Stack:** Vite, React, TypeScript, Capacitor (Android and iOS), Supabase with edge functions, RevenueCat, push notifications, Google social login.

### SkinLove AI - AI skincare scanner (Android, public landing)

2025 - Present

Solo MVP. Ingredient scan, personal product shelf with conflict mapping, evolving compatibility score, daily routine and streak tracking. Public landing at skinlove-ai.com (i18n EN, ES, FR, RO).

**Stack:** Vite, React, TypeScript, Capacitor (Android), Supabase with edge functions, RevenueCat, Playwright.

### AutoPixel AI - AI used-car inspection PWA

2025 - Present

Solo MVP. Photo-based inspection that detects damage, resprays, and discrepancies; VIN decode, listing scrape, shareable scan reports.

**Stack:** Vite, React, TypeScript, Hugging Face Transformers (on-device ML), React Three Fiber, Supabase with edge functions, Stripe Checkout, PWA and offline.

## Skills

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**Languages:** TypeScript, JavaScript, HTML5, CSS3, SCSS, Razor (read), C# (read and integrate)

**Frontend:** Next.js (App Router), React, Tailwind, SCSS Modules, Material UI, Ant Design, Styled Components, Capacitor (mobile), Angular, jQuery

**Data and AI:** GraphQL, Apollo Client, Redis (server-side cache), Vercel AI SDK, OpenAI, Gemini, REST APIs, React Query, Redux, Context API

**CMS and Backend:** Umbraco, Contentful, WordPress, Supabase, Node.js, .NET (read and extend)

**Forms and Tracking:** React Hook Form, Yup, reCAPTCHA, GTM, dataLayer architecture, Contentsquare, Freespee, StoryStream, OneTrust consent

**Performance and Accessibility:** Web Vitals (LCP, INP, CLS), image pipelines, bundle splitting, WCAG 2.2 AA practices, focus management, ARIA patterns, Lighthouse

**Testing and Experimentation:** Playwright (auth flows, component suites), Jest, BrowserStack (real-device QA), VWO (A/B testing, multi-variant module experiments)

**Tooling and DevOps:** Turborepo, Vite, Webpack, Vercel, Cloudflare Workers, Azure Kubernetes Service, AWS Amplify, Azure DevOps

## Education

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### Petroleum-Gas University of Ploiesti

Bachelor's Degree, Computer Science | Ploiesti, Romania | July 2021