

Serhii Makarov

Senior React Frontend Engineer | TypeScript | Scalable Web Applications
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SUMMARY

Senior React Frontend Developer and Product Engineer specializing in scalable, enterprise-grade applications for B2B and SaaS environments. Proven track record in driving alignment between business needs and technical implementation. Acting as a strategic interface between business stakeholders and technical teams, translating abstract requirements into robust, high-performance UI architectures. Expert in end-to-end responsibility, handling complex data flows, scalable state management, and establishing frontend standards for maintainable, business-critical ecosystems.

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer | <https://tapmy.store> (SaaS Platform)

November 2025 – April 2026

- **Stakeholder & Business Alignment:** Close collaboration with stakeholders and product owners to define, refine, and prioritize requirements, translating business requirements into scalable frontend architecture decisions.
- **Enterprise-Grade Delivery & Ownership:** End-to-end responsibility for building an enterprise-grade SaaS application supporting mission-critical workflows and professional users.
- **Architectural Decisions & Standards:** Contribution to key architectural decisions; led the migration to a Turbo Monorepo, establishing best practices, patterns, and modular design systems for a maintainable frontend ecosystem.
- **Data-Intensive UI & Complexity:** Handled data-intensive applications with complex UI logic and global state management (Zustand) for real-time data synchronization and high-performance UI rendering.
- **API & Backend Integration:** Integration of complex REST and GraphQL APIs, handling asynchronous data flows and secure backend communication (Stripe, Google Calendar OAuth).

Team Lead Frontend Developer (Mentor) | <https://tailbook.me>

November 2024 – Present

- **Consulting & Interface:** Acting as the primary interface between business stakeholders and cross-functional agile teams. Led requirement engineering, backlog refinement, and solution design.
- **Scalable Architecture & Mentorship:** Driving architectural decisions for scalable frontend ecosystems. Designed modular, reusable, and extensible UI systems while ensuring delivery accountability across a team of 10 developers.

- **Prototyping & Product Discovery:** Creation of UI concepts and rapid prototypes for complex frontend applications, translating abstract requirements into tangible UI solutions to support early-stage product development.
- **Workflow Optimization:** Built scalable frontend systems enabling operational processes and data-driven decision-making for professional users.

Frontend Developer (Freelance) | UpWork & Freelancehunt

February 2022 – November 2024

- **Web Development:** Engineered 20+ responsive, data-intensive applications, focusing on workflow-oriented UI logic and advanced data synchronization, significantly improving user decision-making processes.
- **Business-Critical Systems:** Development of complex, large-scale frontend systems with advanced data flows, filtering, aggregation, and interaction flows for diverse B2B clients.
- **Performance Engineering:** Focused on frontend performance optimization and rendering efficiency, achieving perfect Lighthouse scores and significant Core Web Vitals improvements.
- **Quality Assurance & Tooling:** Implementation of comprehensive testing strategies (unit, integration) and ensuring inclusive, accessible frontend solutions (WCAG compliance).

IT Consultant | Ukraine

January 2019 – February 2022

- Enabled informed decision-making through technical consulting and structured solution design, delivering customized, scalable web architectures for cross-industry clients.

RELEVANT PROJECTS

Road Management Application (Frontend Architecture Lead)

- **System Complexity:** Development of complex, data-intensive frontend systems supporting real-time decision-making and operational workflows for enterprise infrastructure management.
- **High-Performance UI:** Designed high-performance UI architectures for handling large datasets and complex GIS visualization (Leaflet, Recharts) with advanced state caching (React Query).
- **DevOps & Tooling:** Established modern frontend tooling, CI/CD pipelines, and automated workflows utilizing Bun, Docker, and Cypress for robust E2E testing.

Digital IT Advisor Platform (B2B Enterprise Portal)

- **Modular Architecture:** Architected a highly scalable B2B marketplace using a component-driven architecture, ensuring long-term maintainability.

- **Cross-Functional Delivery:** Worked closely within cross-functional teams to integrate headless CMS solutions, driving alignment between content strategies and technical execution.

FlyVnox Aviation Platform (High-Traffic Application)

- **Performance & SEO:** Engineered a high-traffic SSR application (Next.js) with a strong focus on rendering efficiency and Core Web Vitals optimization.
- **API-Driven Frontend:** Seamless integration of third-party booking APIs and complex data pipelines to ensure reliable transaction flows.

CORE COMPETENCIES

- **Frontend Core:** React (6+ years), Next.js (5+ years - SSR, App Router), TypeScript, JavaScript (ES6+), Responsive Design (Mobile-First).
- **Consulting & Business:** Stakeholder Management, Requirements Engineering, Solution Design, Consulting Mindset, Business Alignment, Cross-functional Collaboration.
- **Architecture & Enterprise:** Component-Driven, Modular Design, Enterprise Apps, Tailwind/shadcn/MUI, Design Systems, Business-Critical Systems, Delivery Accountability.
- **Engineering Excellence:** Performance Optimization (Core Web Vitals), Comprehensive Testing (E2E/Unit/Integration), Accessibility (WCAG), CI/CD Pipelines.
- **Data & State:** Data-Intensive Applications, Complex Data Flows, Scalable State Management, High-Performance UI, Backend Integration, Redux Toolkit, Zustand, React Query, GraphQL/Apollo.
- **UX & Prototyping:** User-centric design, translating product requirements into intuitive interaction flows, rapid UI prototyping.
- **AI-Native Engineering:** Accelerated prototyping, code generation, and workflow automation using AI-assisted tools (Claude, Cursor, Copilot).
- **Testing & Quality:** Jest, React Testing Library, Cypress, Git, strict Code Reviews.

EDUCATION & CERTIFICATIONS

- **Master of Science** | Yaroslav the Wise National University, 2013
- **Web Development Certificate** | IT Career Hub GmbH, 2025
- **Advanced Certifications:** Next.js & OpenAI Integration, React & Redux Advanced, Node.js Backend Development.

LANGUAGES

English: Fluent (C1) | **German:** Intermediate (B1/B2) | **Ukrainian:** Native | **Russian:** Fluent