

# Ilya Moskovkin

## Senior Frontend Engineer | React, Next.js, TypeScript

Vietnam | Remote (UTC+7)

hello@ilyamoskovkin.com | +84 92 407 78 20 | GitHub | LinkedIn | Portfolio

### PROFESSIONAL SUMMARY

Senior frontend engineer with 10+ years across UI/UX design and production SaaS development. I build data-heavy web applications, dashboards, multi-step workflows, design systems, and AI-powered product features across React/Next.js, TypeScript, and Vue/Nuxt. Recent work has been mock-up-first: converting detailed Product Designer/Figma specs into responsive production UI, then optimizing large datasets with virtualization, smart pagination, lazy loading, cache-aware data flows, and customer-facing workflow validation.

### CORE STRENGTHS

- Dual-stack frontend: React/Next.js and Vue/Nuxt, both production-level.
- Mock-up-first UI delivery: Product Designer/Figma specs to pixel-perfect responsive components.
- Large-dataset UX: virtualized lists/rows/columns, smart pagination, lazy loading, data-source caching.
- Complex SaaS UI: dashboards, wizards, forms, data grids, maps, and filters.
- AI and realtime product UX: structured LLM flows, async states, WebSocket/Supabase realtime updates.
- Testing discipline with Vitest, Playwright, and Cypress; tight collaboration with product, design, backend, and customers.

### PROFESSIONAL EXPERIENCE

#### Founder & AI Product Engineer / Frontend Engineer

##### Phosphene

May 2026 - Present | Remote

Self-funded AI SaaS product

- Built an AI image-generation workspace from scratch: visual graph editor, prompt orchestration, generation flows, billing, and deployment.
- Designed frontend architecture and UX for complex generation workflows with reusable Nuxt/Vue components and type-safe APIs.
- Integrated LLM/image-generation APIs, structured prompt handling, async job states, error handling, usage awareness, and Paddle billing.
- Stack: TypeScript, Nuxt 4, Vue 3, tRPC, Prisma/Postgres, Vue Flow, fal.ai, Gemini API, Paddle.

#### Senior Frontend Developer

##### Broker Online Exchange (acquired by AppDirect)

Aug 2021 - May 2026 | Remote

B2B SaaS for energy-brokerage workflows: CRM, pricing, contracts, commissions, renewals

- Shipped React/Mantine/Zustand feature areas while maintaining and modernizing a large Vue 2/3 enterprise SPA.
- Converted detailed Product Designer mockups into pixel-perfect responsive flows: contract, quote, proposal, dashboard, and admin UI.
- Optimized large-data interfaces: DevExtreme grids/charts, virtualized lists/rows/columns, smart pagination, lazy loading, data-source caching, complex filters, and responsive interactions.
- Led a design-system re-theme to AppDirect's Mantine-based language with consistent component patterns.
- Engineered frontend for AI Bill-Scan-to-Contract/Quote using Gemini on Vertex AI: structured response UI, failure states, logging, and cost monitoring.
- Validated broker/customer workflows with product, design, backend, and customer-facing teams; grew core-module test coverage from 0 to ~80% with Vitest and Cypress E2E.

### BEST FIT

- Senior Frontend Engineer
- Dual-stack React/Vue Engineer
- Mock-up-first SaaS UI
- Large Dataset UX
- AI & Realtime Product UX

### KEY SKILLS

- TypeScript
- React / Next.js
- Vue 2/3 / Nuxt
- Mock-up-to-production UI
- Large-data performance
- Virtualization / pagination
- Mantine / shadcn/ui
- TanStack Query / Zustand
- GraphQL / REST / tRPC
- DevExtreme / D3.js / SVG
- Gemini API / Google Gen AI
- WebSockets / Supabase realtime

### AI STACK

- LLM prompt and response UX
- Structured outputs
- Tool-calling patterns
- Async generation states
- RAG concepts / vector search
- Logging, error and cost monitoring

### HIGHLIGHTS

- 10+ years frontend + UI/UX
- Design fidelity + performance
- Customer-aware product engineer

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### 📁 PROFESSIONAL EXPERIENCE *continued*

#### Frontend Developer

##### Ecor Rouge

Oct 2019 - Aug 2021 | Part-time / Remote

- Implemented responsive dashboard interfaces from product mockups/design files into Laravel/Vue.js applications.
- Built and refined Vue components, layouts, and styles in close collaboration with backend developers.
- Helped translate product and design requirements into maintainable user interfaces.

#### UX/UI Designer / Frontend Developer

##### Couture Lane

Jul 2015 - Oct 2019 | SF Bay Area / Remote

- Designed and implemented customer-facing web interfaces.
- Expanded from UI/UX design into frontend development, building a strong design-to-code workflow.
- Built a strong foundation in interface design, usability, and high-fidelity frontend implementation.

### 📁 SELECTED PROJECTS

#### Phosphene

##### phosphene.cc

- Graph-based visual prompt workspace for AI image generation; solo design and build.
- Nuxt 4, Vue 3, tRPC, Prisma/Postgres, Vue Flow, fal.ai, Gemini API, Paddle billing.

#### Broker Online Exchange

##### brokeronlinexchange.com

- B2B energy-brokerage platform featuring mock-up-first UI delivery, design-system re-theme, large-data dashboards, and AI Bill-Scan-to-Quote functionality.

#### Roomboard

##### roomboard.online

- Realtime visual collaboration room for moodboards and reviews with live updates/presence.
- Next.js, Pixi.js canvas, Elixir/Phoenix, Supabase realtime.

#### Anchor

##### anchorapp.cc

- Calm daily-ritual app for mood, sleep, intention, and journaling.
- One Next.js codebase shipping to web, iOS/Android via Capacitor, and desktop via Electron.

### ★ WORKING STYLE

- Mock-up-first: close Product Designer collaboration and high-fidelity specs translated into shippable UI.
- Performance-minded: large datasets treated as a UX problem, with virtualization, pagination, caching, and responsive states.
- Customer-aware: I iterate with product, design, backend, and customer-facing feedback, then document clear demos and PR notes.

### <> TECHNICAL STACK

#### Frontend

- TypeScript
- React / Next.js
- Vue 2/3 / Nuxt
- HTML5 / CSS3

#### State & Data

- TanStack Query
- Zustand / Pinia / Vuex
- GraphQL / REST / tRPC

#### Performance

- List / row virtualization
- Column virtualization
- Smart pagination
- Lazy data loading
- Data-source caching
- Large-table filtering

#### UI & Visualization

- Mantine UI / shadcn/ui
- Tailwind / Material UI
- DevExtreme grids/charts
- D3.js / SVG / canvas

#### AI Product

- Gemini API
- Google Gen AI SDK
- Structured outputs
- Tool-calling patterns
- RAG concepts
- Async generation UX

#### Realtime

- WebSocket patterns
- Supabase realtime
- Presence / live updates

### 🔧 TOOLS

- Vitest / Playwright / Cypress
- Git / GitHub / Jira
- Cursor / Codex / Claude Code
- Remote async collaboration