Alyona Kruchkova

Front-end Developer

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SUMMARY:

Front-end developer focused on building production-ready interfaces with modern TypeScript, JavaScript, React, and scalable architecture.

I create full-featured applications from scratch using Feature-Sliced Design, ensuring clear module boundaries, predictable data flow, and maintainability.

My experience includes authentication systems with refresh tokens, analytics dashboards, CRUD operations, reactive state management (Zustand), charts, interactive forms with validation, dynamic animations, and adaptive/responsive layouts.

Strong attention to UI/UX quality, code readability, edge cases, testing, and architectural consistency.

I'm open to joining a team where I can contribute to everyday product work and keep developing my skills through real tasks.

SKILLS:

Programming Languages: TypeScript (with generics), JavaScript (ES6+, Vanilla JS)
Frameworks & Libraries: React (functional components, hooks), Zustand, Zod, React Router, Recharts, SCSS, Framer Motion, Axios
Architectures & Patterns: Feature-Sliced Design (FSD), modular architecture, REST API integration, JWT auth + refresh
Tools & Environment: Vite, Node.js, Git, Prettier, ESLint, Jest + RTL, CI/CD (GitHub Actions), Vercel deployment
Backend (mock / custom): JSON-server, json-server-auth, bcrypt, token refresh logic, localStorage persistence
Other: Responsive/adaptive layouts, BEM, forms & validation, reusable UI components, state management patterns
Languages: English (upper-intermediate), Spanish (intermediate), Russian (native)

PROJECT EXPERIENCE

Freelance / Personal Projects (April 2024 – present time) Russia

Selected projects demonstrating frontend and full-stack development, modular architecture, state management, interactive UI, and responsive layouts.

FinTrack Demo / Full-Stack – Personal Finance SPA

Stack: React 19, TypeScript, Zustand, Node.js, JSON-server-auth, Recharts, Framer Motion, Vite
Demo: https://fintrack-demo-v.vercel.app/ | GitHub: https://github.com/Alyona-K/fintrack-demo-v
Full-stack (start backend locally via `npm run dev`*):*
https://financialtracker-ak.vercel.app/ | GitHub: https://github.com/Alyona-K/financial_tracker
Screen Recording: Link to video

Project Overview:

Full-featured SPA for personal finance tracking with modular architecture, secure authentication, analytics, and CRUD operations.

Demo version uses localStorage to showcase frontend functionality without backend setup.

Frontend Contributions:

- Built modular architecture following Feature-Sliced Design: app → entities → features → pages → shared.
- Created domain-specific Zustand stores: auth, user, category, transaction, widgets, each with schemas and business logic, integrated with API via Axios (token handling, refresh, error management).
- Implemented secure authentication: login, register, auto-login demo user, refresh token, logout, persisted via localStorage.
- Developed full CRUD functionality: transactions, categories, soft-delete, filters, sorting, and reactive UI updates.
- Integrated analytics and visualizations: Recharts charts, summary widgets, dynamic category and time-based analytics.
- Built UI components: tables, forms, modals, shared components (buttons, inputs, sidebar, topbar), with TypeScript typing.
- Implemented interactive animations and page transitions using Framer Motion, SCSS, and custom keyframe animations.
- Set up testing: unit, integration, snapshot, store logic, routing, page loading (Jest + React Testing Library).

- Configured project environment: Vite 7, TypeScript strict mode, ESLint, Prettier, aliases, Vite proxy.

Backend Contributions:

- Developed custom server on json-server + json-server-auth with authGuard, soft delete, filters, and refresh tokens.
- Designed fully-typed data structure: users, categories, transactions with entity relationships.
- Configured JWT middleware, bcrypt password hashing, and demo user bootstrap.
- Built REST API with filtering, CRUD operations, and edge-case handling.
- Ensured full FE ↔ BE data compatibility, including deleted categories and reactive updates.
- Configured CI/CD: GitHub Actions (lint, test, build) with automated deployment on Vercel and SPA fallback.

Demo Version (Frontend-only):

- Demonstrates SPA functionality with localStorage persistence: transactions, categories, charts, filters, forms, modals, routing, and protected routes.

Briaton Catalog – E-commerce Dynamic Catalog

Stack: Vanilla JavaScript, SCSS

Links:

- https://alyona-k.github.io/briaton-catalog/
- https://github.com/Alyona-K/briaton-catalog

Contributions:

- Created dynamic product catalog with DOM manipulation and JSON-based data rendering.
- Built filtering, sorting, pagination, and shopping cart functionality.
- Implemented interactive UI components: accordion FAQ, tooltips (Tippy.js), sliders (Swiper.js), and form validation (JustValidate).
- Organized project into modules: /components, /utils, /modules for maintainable and scalable code.

Pawtastic – Pet Shop Landing Page

Stack: HTML5, SCSS, BEM

Links:

- https://alyona-k.github.io/pawtastic/
- https://github.com/Alyona-K/pawtastic

Contributions:

- Developed fully adaptive Pixel Perfect layout according to design specifications.
- Built semantic, accessible UI using proper ARIA roles, focus states, and interactive zones.
- Structured SCSS with BEM methodology and modular architecture for maintainability.
- Implemented animations and hover effects for dynamic logo and UI elements.
- Optimized performance: lazy-loaded images, preloaded fonts, retina assets; achieved Lighthouse (100%)

EDUCATION

Moscow State University of Design and Technology Moscow, Russia
(now: A. N. Kosygin Russian State University) Sep 2008 – Jul 2013
Specialist Degree in Fashion Design

CERTIFICATION/COURSES/LICENSES

- **CS50: Introduction to Computer Science (HarvardX, edX)** – 2021, refreshed 2025 (HTML, CSS, JavaScript; ongoing topics: AI, Arrays, Algorithms, Memory, Data Structures)
- **Frontend Developer Professional Program (Skillbox)** – 2024–2025