

# ARTEM ZYKOV

LEAD FRONTEND • FULLSTACK ENGINEER

React • Next.js • NestJS • AI Agents & MCP



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## PROFILE

Lead Frontend / Fullstack Engineer, building commercial products since 2019. I lead a team of 6 frontend engineers on a large micro-frontend product and ship full products end-to-end: database, API, UI, bots, CI/CD and hosting. I bring AI into both the workflow (custom MCP server, Spec-Driven Development with AI agents) and the product (LLM features in production).

## SKILLS

### FRONTEND

- React 16–19, Next.js (App Router, SSR / ISR / SSG), TypeScript, JavaScript
- Redux Toolkit, RTK Query, Zustand, MobX, TanStack Query
- Micro-frontends, FSD, monorepos, SEO

### BACKEND

- Node.js, NestJS, TypeORM, PostgreSQL, Redis, MongoDB, Supabase
- REST API, WebSocket (Socket.IO), GraphQL, JWT

### AI

- MCP servers, AI agents, Spec-Driven Development
- LLM integration (YandexGPT), Claude, Cursor

### BOTS & INTEGRATIONS

- Telegram (Telegraf), MAX Bot API, Sanity CMS, online payments, Agora.io

### DEVOPS

- Docker, nginx, SSL (Let's Encrypt), VPS
- GitHub Actions, GitLab CI

### UI & TESTING

- Tailwind, SCSS, MUI, Mantine, React Aria, Framer Motion, GSAP, Storybook
- Jest, React Testing Library, Cypress, Playwright

English: B1–B2

## EXPERIENCE

### LEAD FRONTEND DEVELOPER

Russia, Moscow (Remote) Bellintegrator

February 2025 - Present

Lead 6 frontend engineers across 4 departments on a large-scale micro-frontend product. Own technical strategy, hiring and onboarding, performance reviews, quarterly planning and end-to-end delivery. Drive AI-assisted development across the team.

#### Key Achievements:

- AI: built a custom MCP server on top of Pixso MCP — it fetches design layouts as JSON, maps them to design-system components and generates production-ready UI code, significantly reducing manual layout work
- AI: introduced Spec-Driven Development with AI agents — frontend tasks go from specification to implementation through an agent-based workflow - Designed a scalable micro-frontend architecture; defined API contracts and integrations together with backend teams
- Led a large-scale refactoring: +25% frontend performance, cross-browser and responsive
- Built a testing process from scratch (Jest, RTL): coverage raised to 60%
- Set up CI/CD on GitLab CI: automated testing, build and deployment, faster and more reliable releases
- Introduced coding standards and a code-review process: fewer defects, faster onboarding
- Aligned 4 departments: –30% time-to-market for new modules; delivered a dedicated admin panel

**Tech Stack:** React 19, TypeScript, Webpack, Vite, React Testing Library, Jest, Styled-components, Micro-Frontends, CI/CD (GitLab CI), MCP, AI Agents, SDD

## EDUCATION

### B.SC. COMPUTER SCIENCE

Lobachevsky State University,  
Nizhny Novgorod  
2010 - 2014

### JOB RETRAINING. COMPUTER SCIENCE (FRONTEND DEVELOPER - REACT)

Innopolis University, Kazan.  
2022

# EXPERIENCE

## SENIOR FRONTEND DEVELOPER / TEAM LEAD

Russia, Moscow (Remote) "АНО ДПО НАДПО"

December 2023 - February 2025

Senior Frontend Developer with experience leading a team of 4 developers across two projects. Responsible for task distribution, code reviews, and ensuring successful project delivery. Initiated and implemented the technology stack (Next.js, React, TypeScript, RTK-Query, Redux Toolkit, MUI, and more) and designed the project architectures.

### Key Achievements:

- Designed and implemented a full-stack technology architecture, including multilingual support using i18next for both server-side and client-side components in two projects.
- Integrated sockets for notifications and optimized specific use cases, enabling real-time data transmission and enhancing UI/UX.
- Configured authentication and authorization using NextAuth (middleware + protected routes), implementing a role-based access model.
- Successfully integrated online payments, improving transaction convenience and security for users.
- Developed video conferencing functionality using Agora.io, enhancing user interaction.

**Tech Stack:** Next.js v14, React v18, NextAuth (auth.js), TypeScript, i18next, Redux Toolkit, RTK-Query, Axios, Socket.io, React Spectrum, MUI, Framer Motion, SCSS, React Hook Form, Zod.

## FRONTEND DEVELOPER

Freelance (Remote)

2019 - Present

Full design, build and deploy products end-to-end: database, API, frontend, bots, CI/CD and hosting.

### class-chat.ru

- SaaS for schools and tutors: web admin panel + messenger bots
- Monorepo: NestJS API, React 19 admin panel, Telegram (Telegraf) and MAX messenger bots, shared types
- PostgreSQL + TypeORM, Redis; multi-tenant model with 4 roles (JWT, RBAC guards), rate limiting, SQL migrations
- Real-time notifications via Socket.IO; schedules with exceptions, attendance, delayed broadcasts, file attachments
- LLM module: provider-agnostic via DI (YandexGPT), system prompts managed from the admin panel without redeployments, role-based access and limits
- Infrastructure: Docker Compose (PostgreSQL with SSL, Redis, API, web, nginx), CI/CD on GitHub Actions to a VPS, scheduled SSL renewal Stack: NestJS, TypeScript, PostgreSQL, TypeORM, Redis, Socket.IO, React 19, Vite, TanStack Query, Zustand, Mantine, Telegraf, Docker, nginx, GitHub Actions, YandexGPT

### english-zykova.ru

- bilingual website for a language school
- Next.js App Router with ru/en localization (i18next + middleware), SSR/SSG, SEO
- Headless CMS on Sanity: 11 content schemas (courses, tests, teachers, blog, prices), embedded Sanity Studio
- Interactive level tests, course cart and lead forms delivered to Telegram via a Next.js API route
- Dockerized behind nginx with SSL; auto-deploy on push via GitHub Actions plus a manual workflow with rebuild options Stack: Next.js, TypeScript, Sanity, i18next, Zustand, React Aria, Framer Motion, Tailwind, SCSS, Docker, nginx, GitHub Actions

# EXPERIENCE

## FRONTEND DEVELOPER

Russia, Taganrog (Remote) "ООО Облачные технологии"

September 2023 - December 2023

### Key Achievements:

- Development and improvement of existing SPA on React with TypeScript for medical institutions;
- Working with a large amount of data;
- Working with tables using Ant design;

**Tech Stack:** TypeScript, React, Redux-Toolkit, Redux-Thunk, Axios, Rest-API, Styled Components, AntDesign

## FRONTEND DEVELOPER

Russia, Moscow (Remote) "ООО Нектарин"

October 2021 - September 2023

### Key Achievements:

- One implemented the frontend part of the SSR application on Next.js v.12 after that on Next.js v.13 with TypeScript;
- I used the Redux-Toolkit state manager in conjunction with RTK-Query for queries and caching and infinity scroll;
- Made middleware to protect route;
- Configured Next-Auth in conjunction with Keycloak;
- Adapted the application for all types of devices using SCSS and Tailwind;
- Used Frame Motion for animation;
- Created a UI with complex shapes, graphs, tables using MUI, chart.js;
- Added bulk loading of users from an excel file using xlsx;
- Implemented dashboard for employees and owners;
- Configured notifications;

**Tech Stack:** Next.js v.12-13, TypeScript, Redux-Toolkit, RTK-Query, Framer motion, SCSS, Tailwind, MUI, chart.js

## TEAM MANAGER

Russia, Nizhniy Novgorod "ИП Киселева О.Н."

2015-2020

- Conducted hiring interviews
- Managed stakeholder communication
- Distributed and prioritised tasks