

Ivan Hilkov

Lead Fullstack Engineer — Moscow, Russia (UTC+3)

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Professional Summary

Lead Fullstack Engineer with 17+ years delivering React/Next.js applications and data-intensive web UIs. Focused on video streaming and geospatial products, with a record of performance optimization and pragmatic architecture. Led teams up to 8 engineers and shipped products end-to-end from MVP to scale. Remote-first, immediate availability, open to international contract and invoicing.

Selected Achievements

- **START:** Reduced API latency by ~40% during peak traffic via query and caching optimizations.
- **Skyeer:** Co-designed QA automation (800+ Selenium E2E tests) with QA team, improving release stability by ~80%.
- **Skyeer:** Delivered platform MVP in 3 months; won Gazprom “Unmanned Biathlon” (1st place; measurement accuracy ± 0.02 m³).
- **Skyeer:** Implemented resumable uploads up to 100 GB using tus.io with pause/resume support.

Experience (Selected)

- **START — Lead Frontend Engineer — Jan 2023 — May 2024**
- Built new Next.js sections “Movies on TV” and “TV Series,” integrated player and TV channel storefront.
- Shipped TV section with schedules and catch-up TV; improved channel viewing UX.

- Reduced latency by ~40% during peak traffic through query and caching optimizations; improved lazy-loading and dynamic feeds.
- Led and mentored **4** frontend developers; streamlined A/B testing and refactored payment form to Redux for clarity and reuse.
- **Skyeer — Lead Frontend Engineer — Apr 2017 — Jan 2023**
- Built web-GIS platform: React, Redux-Saga, Mapbox/Cesium/Potree; authored a 50+ component UI library.
- Delivered MVP in 3 months; 1st place at Gazprom “Unmanned Biathlon” (measurement accuracy $\pm 0.02 \text{ m}^3$).
- Implemented resumable uploads up to 100 GB (tus.io), measurement tools, 360° panoramas, and point clouds.
- Drove QA automation with QA team: 800+ Selenium tests; release stability +80%; established CI/CD.
- Led a team of **8** engineers; i18n (EN/DE) and documentation at doc.map.skyeormap.com.
- **Sovzond — Senior Frontend Engineer — Jun 2013 — May 2015**
- Designed and built “Satellite Imagery Archive” SPA (Backbone, Leaflet, Bootstrap) with REST search and polygon tools.
- Implemented cart/account, WMS cadastral overlays, enhanced GeoJSON rendering; virtualized large tables.
- Initiated regression testing; migrated legacy ExtJS service to Backbone with full REST integration.

Core Skills

- **Frontend:** React, Next.js, TypeScript, Redux, React Native
- **Backend:** Node.js, FastAPI, Flask • **DB:** PostgreSQL, Redis
- **Tooling:** Docker, CI/CD, Cypress, Jest
- **Domains:** Geospatial (Cesium, Mapbox, Leaflet, Potree), Media (FFmpeg, HLS)

Portfolio

- Geospatial platform demo (YouTube): https://youtu.be/df4GsBd9a_U

Personal Projects

- [hello-bot](#) — TypeScript, Node.js, Telegram Bot API
- [hello-ai-bot](#) — TypeScript, Node.js, OpenAI/LLM tooling
- [english-teacher-bot](#) — TypeScript, Node.js, Telegram Bot API

Education

Kuban State University — Faculty of Theoretical Physics

— CV (PDF): [CV.pdf](#) — FULL_CV (PDF): [FULL_CV.pdf](#)