# Hilkov Ivan Andreevich

**Lead Fullstack Engineer**

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## Contact Information

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- **Instagram:** @helios_m42
- **Lightroom presets:** xmp.zip
- **PDF:** cv_ivan_hilkov.pdf

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## Executive Summary

Frontend engineer with over **17 years** of professional experience across high-tech startups and large corporations. Demonstrated expertise in delivering complex software products from architectural design through deployment and long-term maintenance.

**Leadership Experience:** Team management of up to 8 engineers in distributed environments, with focus on process optimization and knowledge transfer.

**Core Philosophy:** Strategic balance between technical excellence and business objectives, emphasizing measurable results and user-centric solutions. Proven track record of performance under pressure with emphasis on evidence-based decision making.

## Technical Competencies

### Frontend Technologies

- **Core Frameworks:** React, React Native, Next.js, Redux
- **Languages:** TypeScript, JavaScript (ES6+)
- **Build Systems:** Vite, Webpack, Rollup
- **Styling Solutions:** TailwindCSS, CSS-in-JS, SCSS
- **Testing Frameworks:** Cypress, Jest, React Testing Library

## Backend & Infrastructure

- **Python Stack:** FastAPI, Django, Flask
- **Node.js Ecosystem:** NestJS, Express
- **Database Systems:** PostgreSQL, Redis, MongoDB
- **Message Queues:** Celery, RabbitMQ
- **DevOps:** Docker, CI/CD pipelines, GitHub Actions

## Specialized Domains

- **Geospatial Technologies:** Cesium, Mapbox, Leaflet, Potree
- **Media Processing:** FFmpeg, gPhoto2
- **Hardware Integration:** LTE modems, Raspberry Pi, IoT devices
- **Mobile Development:** React Native (iOS/Android)

## Professional Skills

- **Team Leadership:** Agile methodologies, code review processes, mentorship
- **Project Management:** Technical roadmap planning, cross-functional collaboration
- **Communication:** Technical documentation, stakeholder presentation
- **Languages:** Russian (native), English (B2 level)

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# Professional Experience

## HRONIKA | Moscow

**Co-Founder** | *April 2025 — Present*

**Project Overview:** Development of autonomous timelapse photography system for construction and infrastructure monitoring.

**Technical Achievements:**

- Engineered prototype of autonomous timelapse system using Raspberry Pi 4, Canon 1100D, and LTE connectivity
- Implemented pull-based architecture for task distribution and cloud-based RAW image storage
- Developed responsive web application using React, HeroUI, and TailwindCSS
- Architected fault-tolerant backend infrastructure with FastAPI and Celery/Redis
- Designed Bill of Materials for autonomous power management including UPS HAT, Li-ion batteries, IP67 enclosure

- Prepared comprehensive technical documentation and successfully qualified for Sber500 accelerator program

**Website:** [hronika.tech](hronika.tech)

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## Tekara | Moscow

**Frontend Lead Engineer** | *May 2024 — May 2025*

**Project Overview:** E-commerce platform for industrial machinery and spare parts distribution.

**Technical Achievements:**

- Developed comprehensive catalog system and shopping cart functionality, resulting in 15% conversion improvement
- Established and maintained design system and UI component library for consistent user experience
- Implemented advanced anti-scraping mechanisms, achieving 75% reduction in unauthorized traffic
- Optimized server-side rendered storefront using Next.js for handling up to 70,000 requests per second
- Established CI/CD pipeline and comprehensive UI/UX testing suite using Cypress

**Website:** [tekara.ru](tekara.ru)

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## Tvigle | Moscow

**Frontend Lead Engineer** | *May 2024 — October 2024*

**Project Overview:** Cross-platform mobile video streaming application development.

**Technical Achievements:**

- Led development of React Native application for iOS and Android platforms
- Implemented automated CI/CD pipeline with TestFlight integration for beta distribution
- Integrated VK Ads network with VAST 4.3 standard support for preroll, midroll, postroll, and companion banner advertisements

**Website:** [tvigle.ru](tvigle.ru)

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## START.ru | Moscow

**Frontend Lead Engineer** | *January 2023 — May 2024*

**Project Overview:** Smart TV video streaming platform and web application development.

**Technical Achievements:**

- Launched "Cinema on TV" section with integrated video player for Smart TV platform
- Optimized API request patterns during high-traffic periods, achieving 40% latency reduction
- Conducted comprehensive architectural refactoring of authentication and subscription systems
- Mentored development team of 6 engineers with focus on code quality and best practices

**Website:** [start.ru](start.ru)

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## Skyeer | Moscow

**Frontend Lead Engineer** | *April 2017 — January 2023*

**Project Overview:** Geospatial data processing and drone monitoring platform development.

**Technical Achievements:**

- Developed MVP of unmanned aerial vehicle monitoring system for Gazprom including user portal and map layer printing
- Created proprietary component library that was subsequently utilized across more than 5 projects
- Created user interface for waste monitoring service ([reo.ru/flyby](reo.ru/flyby))
- Implemented UI for UAV-based quarry road monitoring system ([technical article](technical article))
- Developed client-side application for cloud aerial data processing service ([attractor.aero](attractor.aero))
- Integrated advanced 3D visualization technologies including Cesium, Mapbox, and Potree with performance optimization
- Built and managed frontend development team of up to 8 engineers
- Established code review processes, CI/CD pipelines, and internal knowledge sharing workshops
- Achieved 89% test coverage using Selenium automated testing framework

**Website:** [skyeermap.com](skyeermap.com)

## Sovzond | Moscow

**Senior Frontend Engineer** | *June 2013 — May 2015*

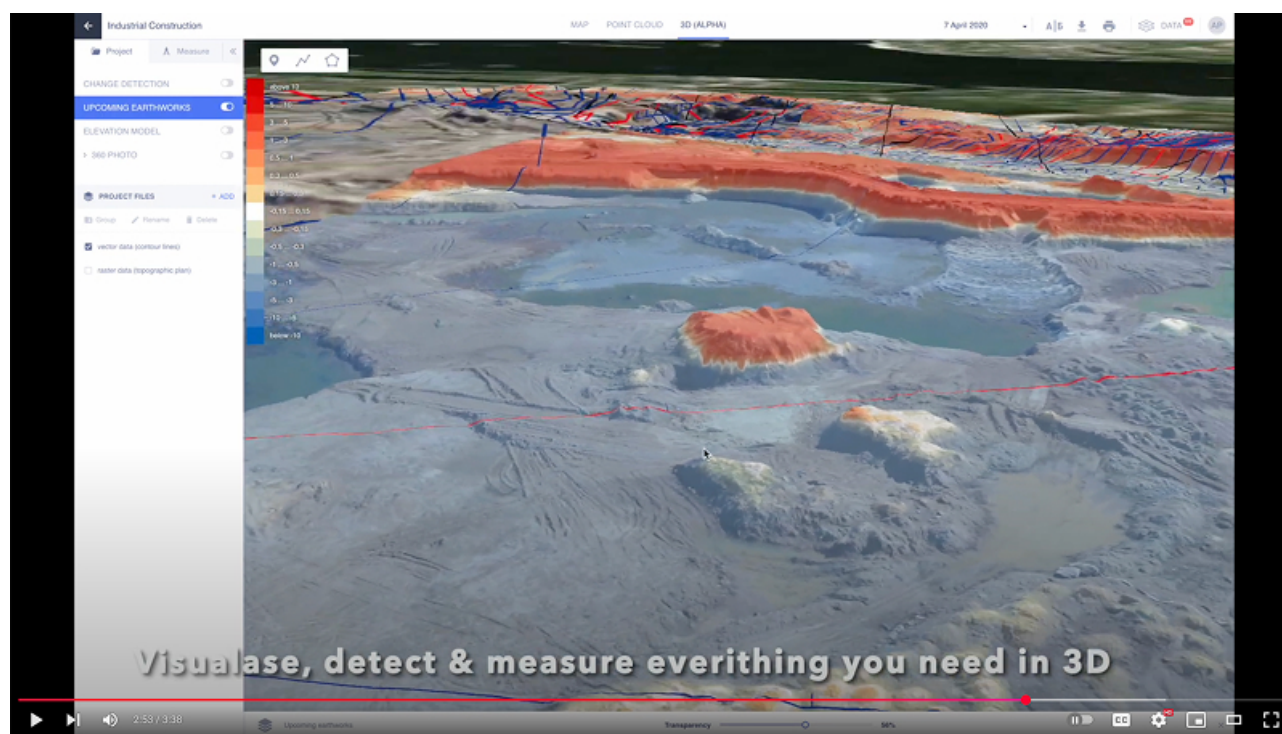**Project Overview:** Satellite imagery archive and search platform development.

**Technical Achievements:**

- Developed user interface for satellite imagery archive and search functionality using Backbone.js
- Implemented advanced geofiltering, timeline controls, and responsive mapping components
- Optimized application performance through lazy-loading and asset minification strategies

**Website:** sovzond.ru

# Portfolio Demonstration



*Interactive demonstration of geospatial data processing platform capabilities*

# Academic Background

**Kuban State University** | Krasnodar
*Faculty of Theoretical Physics* | *2003 — 2009*

**Relevant Coursework:** Mathematical modeling, computational physics, statistical analysis, algorithm design

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# Personal Projects

## Shawarma Bot | TypeScript, Node.js, Telegram API

github.com/ivan-hilckov/shawarma-bot

## TimeLaps Box | Python, Raspberry Pi, Hardware Integration

github.com/helius-lab/timelapsbox

## Showcase Bot | Node.js, Telegram API

github.com/ivan-hilckov/showcase-bot-main

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## Lightroom Presets Collection | Photography, Adobe Lightroom

**Custom color grading and tone mapping presets for professional photography**

**Technical Implementation:**

- Developed collection of Adobe Lightroom presets for dark film and cinematic aesthetic
- Implemented careful white balance adjustments for enhanced color grading
- Applied grain effects for authentic analog film reproduction
- Inspired by professional photographers and colorists including GxAce, Really Nice Images, Peter McKinnon, and Cameron Mackie

**Resources:**

- **Browse Presets:** View XMP Collection
- **Download Archive:** xmp.zip
- **Installation Guide:** INSTALL.md

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# Research Interests

- Computer graphics and 3D visualization optimization
- Geospatial data processing algorithms
- Real-time media processing and streaming
- Human-computer interaction in complex data environments

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**Available for technical consultation and project collaboration**