

Hilkov Ivan Andreevich

Lead Fullstack Engineer

Contact Information

- Email: strange.mole@gmail.com
 - Telegram: [@mrbzzz](https://t.me/mrbzzz)
 - GitHub: [ivan-hilckov](https://github.com/ivan-hilckov)
 - Instagram: [@helios_m42](https://www.instagram.com/helios_m42)
 - Lightroom presets: [xmp.zip](#)
 - PDF: [cv_ivan_hilkov.pdf](#)
-

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)
-

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

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

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

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

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)
- Implemented UI for UAV-based quarry road monitoring system ([technical article](#))
- Developed client-side application for cloud aerial data processing service (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

Sovzond | Moscow

Senior Frontend Engineer | *June 2013 — May 2015*

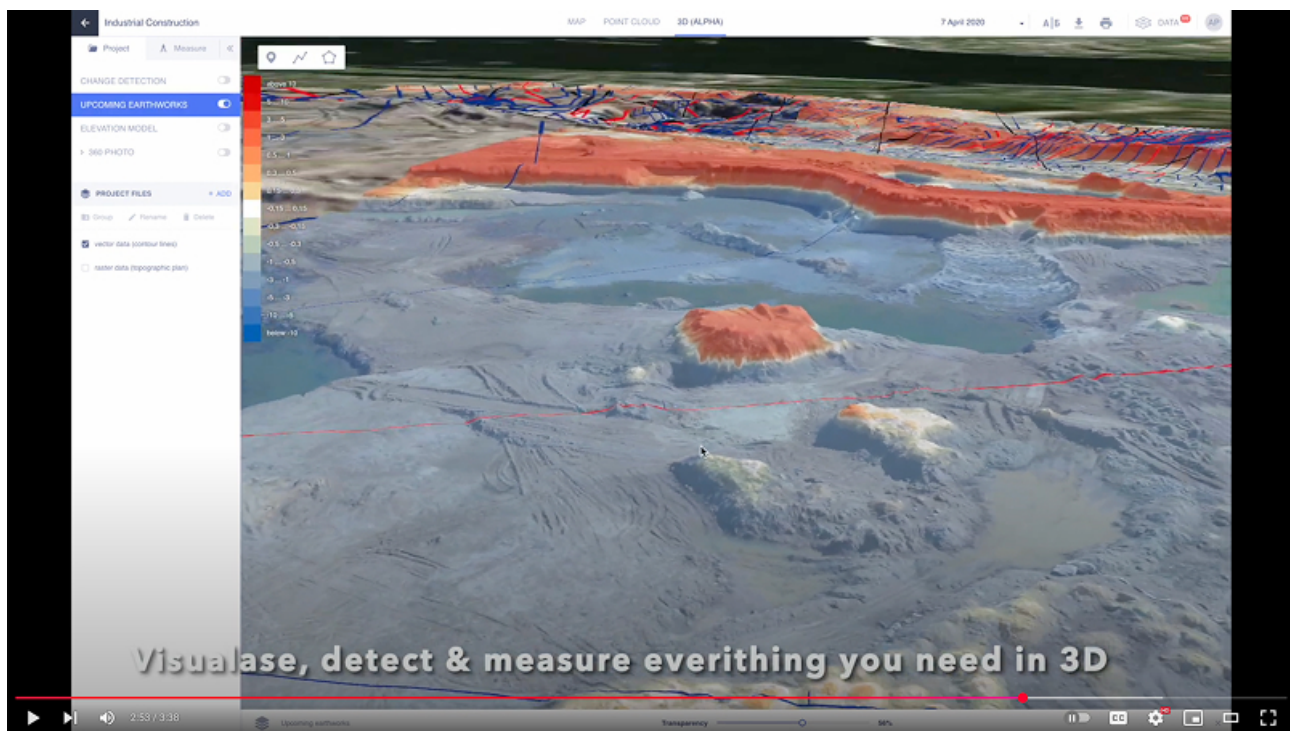
Project Overview: Satellite imagery archive and search platform development.

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

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

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](#)
-

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
-

Available for technical consultation and project collaboration