Andrei Kolesnikov



Male, 35, born April 4, 1991
+84 775 528 173 · zenzuk91@gmail.com · Telegram: @zenzuk
Based in: Vietnam (Da Nang) · Citizenship: Russia

Founder & CTO of a startup
Focus areas: product development, full-stack engineering, AI integrations, technical leadership. Previously — Frontend/Full-stack developer.

Experience — 13+ years

2025 — present
Enamatea (formerly EcoHeroes / Lumio), Da Nang, Vietnam

Founder, CEO & CTO

Designed and independently built a live product from scratch — a gamified mobile app for environmental volunteering with AI verification and blockchain-backed proof of contribution. The entire technical stack is my own build, from architecture to production.

- Frontend: React 19 PWA (TypeScript, Vite), Zustand, Mapbox GL, i18next (4 languages — English, Vietnamese, Serbian, Russian), Web Push, offline mode via service worker; a single codebase serving Android/iOS/desktop with no app-store dependency.
- Backend: Python (FastAPI) + PostgreSQL; mission management with a staged review pipeline, geotagged photo evidence storage, real-time chat over WebSockets, gamification economy engine, event-attendance confirmation (geo check-in + photo report).
- Verification & trust: canonical onchain attestations for every confirmed action (HMAC-hashed identifiers, rounded geolocation, SHA-256 photo fingerprints — no PII), written to the Solana blockchain via an async queue; server-side donation verification (USDC, Dash) against the public ledger.
- Infrastructure: Dockerized services behind Nginx, staging/production environments, a modular monolith designed to split into services as load grows.
- Launched the MVP on July 23, 2026 (ecoheroes.world); running an active city pilot in Da Nang with a city partner (Da Nang DISSC) and a volunteer community (Clean Vietnam Project); built and lead a 7-person team (AI/ML, product, growth, narrative design, internationalization).
- Leading development of the AI verification layer on Google Gemini Vision and Gemma (waste classification, photo-manipulation detection) and geospatial analytics (AlphaEarth, Earth AI, Vertex AI).

May 2017 — 2025 (about 8 years)
Work-zilla → direct clients, remote

Freelance Web / Software Developer

Started on the Work-zilla platform, worked there formally for about a year. From there, client relationships carried over from one referral to the next, and I continued as an independent freelancer — maintaining existing client products and building new ones, mostly WordPress sites (online stores, landing pages, custom layout and functionality). From 2022, the work expanded into more complex projects: Telegram bots and AI integrations for specific client business needs.

- Largest project — Markets: a PHP platform automating product feed uploads (prices, stock, listings) to marketplaces (Wildberries, Yandex Market). Designed business rules to guard against anomalous price changes (quarantine on 15–20% price deviation), a database-backed validation and audit queue for uploads, Telegram integration for notifications, and a security layer (webhook signature verification, CSRF protection, rate limiting, migration to prepared statements); CI/CD deployment via GitLab.

Technologies: jQuery, HTML, CSS/SCSS/Sass, TypeScript, PHP, MySQL, React, Node.js; CMS — WordPress, OpenCart, Joomla, 1C-Bitrix, Shopify; Figma, Photoshop; Git/GitLab CI.

May 2017 — November 2017 (7 months)
LLC «Technologies of Security», Barnaul

Engineer

Prepared design documentation for Wi-Fi network installations, calculated equipment placement and types, installed and demonstrated equipment to clients.

June 2016 — May 2017 (1 year)
LLC «Vector», Barnaul, spezvision.ru

System Administrator

Configured and connected video surveillance and security systems, remote access, troubleshooting, user consultations, equipment acceptance and defect testing.

June 2014 — June 2016 (2 years 1 month)
LLC «U.P.G.R.A.D.E», Barnaul, www.mps-up.ru

Engineer

Remote technical support for client stores, hardware/software configuration, computer repair, server infrastructure administration (Windows Server 2008) and LAN/Wi-Fi (~30 computers), built the company website and internal tools in MS Excel VBA.

August 2013 — June 2014 (11 months)
Grammofon, Biysk

Installation Technician

Installed sound systems, handled troubleshooting, maintained supporting software.

Education

2013 — Biysk State College, «Information Technology and Management Automation» (vocational/technical secondary education).

Professional development

- 2022 — «Middle Frontend Developer», Yandex Practicum (ANO DPO «Yandex Educational Technologies»).

Key skills

Languages: Russian — native, English — A2.

Product & Engineering leadership: solo architecture and development of a full product from scratch to production, technical team management, AI/ML integrations (Google Gemini, Gemma, Vertex AI), blockchain integrations (Solana; currently learning Avalanche and DAO architectures).

Frontend: React, TypeScript, JavaScript, HTML, CSS/SCSS/Sass, Vite, Figma.

Backend & Infra: Python (FastAPI), PostgreSQL, Node.js, Docker, Nginx, Git, Linux, Windows Server.

CMS/platforms: WordPress, OpenCart, Joomla, 1C-Bitrix, Shopify.

Also: systems administration, network engineering (Wi-Fi/LAN), technical/engineering system installation.

About me

Performed as an actor in 3 stage productions and as assistant director in 5 productions. I listen to a wide range of music — from punk rock to rap — and go to concerts. In my free time I repair equipment (handyman) as a volunteer at children's shelters and animal shelters. An active eco-volunteer — I built the tool I personally use in the field.

In my free time, I independently research 3D printing and the recycling of plastic waste into filament — an applied field at the intersection of engineering and environmental sustainability, closely aligned with the focus of my current project.

ADHD as a superpower: hyperfocus lets me single-handedly take complex technical systems from idea to production on tight timelines, and non-linear thinking helps me find solutions where a linear approach doesn't work.