Vladyslav Pelykh

Lead Fullstack Engineer · TypeScript · Currently CTO

`Node.js / NestJS · Vue / Nuxt · ClickHouse · PostgreSQL · Redis · BullMQ`

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Poland · Remote (EU / US overlap)

SUMMARY

Lead fullstack engineer with 6+ years shipping revenue-critical, high-load systems in AdTech, iGaming and fintech. Currently CTO of AdMatrix: I own architecture, a 7-person team and delivery of a ~270k LOC TypeScript platform that runs the company's revenue tracking, analytics and ad operations. I specialize in the parts where mistakes cost money: payment and postback pipelines, real-time analytics on ClickHouse, concurrency and idempotency. I lead hands-on and take the hardest problems myself.

SELECTED IMPACT

`1–6 s → <200 ms`
Re-engineered the revenue postback service (4 gateways); lead events <10 ms; partner timeouts eliminated.

`0 double-counted deposits`
Enforced per-click Redis locks and ClickHouse state rebuild, making concurrent, out-of-order revenue events safe.

`20,000+ concurrent users`
Scaled fault-tolerant WebSocket clusters through peak sporting events; cut server response time by 40%.

`7-person team`
Hired and led engineers and designers; established code review standards, CI quality gates and releases.

`~270k LOC platform`
Architected the ERP, CRM and analytics monorepo: ~60 API modules, ~300 UI components, shared typed contracts.

`270+ sites · 470+ domains`
Streamlined provisioning of a content-site network: DNS, SSL, hosting and deploy in one automated pipeline.

EXPERIENCE

CTO — AdMatrix

Feb 2026 – Present · Remote

ERP, CRM and real-time analytics platform for an affiliate media-buying company

- **Engineering Leadership:** Built the engineering org from zero to 7 engineers and designers; owned hiring, onboarding, code review standards, CI quality gates and the release process; drove a roadmap prioritized against revenue goals.
- **Platform Architecture:** Architected a ~270k LOC pnpm + Turborepo monorepo — NestJS (Fastify) API, Nuxt SPA, shared Drizzle/Zod contracts, Telegram bots and a Mini App — giving backend and frontend a single end-to-end typed contract.
- **Core Revenue Pipeline:** Re-engineered legacy PHP postback handlers into a resilient NestJS (Fastify) S2S service handling 4 gateways; enforced strict idempotency via Redis distributed locks for FTD, redeposit and LTV attribution, slashing latency from 1–6 s to <200 ms.
- **ETL & Analytics:** Architected high-throughput BullMQ ETL pipelines processing click streams into ClickHouse (ReplacingMergeTree, monthly partitions); eliminated click double-counting and cluster OOMs, enabling real-time ROI / ROAS / CPA / EPC analytics on bounded queries.
- **Infrastructure Automation:** Built multi-step automated provisioning pipelines (Cloudflare, Namecheap, Dynadot APIs) with retries and rollback, managing 270+ sites across 470+ domains; migrated 219 live Cloudflare zones with zero downtime; killed a production outage on a 250-site origin — load 125 → 7, PHP workers 475 → 19, ~10 GB RAM reclaimed.
- **Ads Automation:** Automated Meta Marketing API workflows with header-aware rate limiting, and shipped a browser-extension ingest path that pulls Ads Manager data beyond API limits.
- **Security:** Hardened auth with refresh-token rotation and reuse detection; designed RBAC with 60 permissions, role inheritance and audited overrides; rolled out AES-256-GCM field-level encryption.

Stack: NestJS, Fastify, Nuxt, PostgreSQL, Drizzle, ClickHouse, Redis, BullMQ, Socket.IO, Zod, Docker, GitHub Actions

Senior Fullstack Developer — DraftKings Inc.

Jan 2023 – Jan 2026 · Remote

- Scaled fault-tolerant WebSocket clusters serving 20,000+ concurrent players during peak sporting events, keeping live-betting traffic stable at the highest-revenue moments.

- Slashed server response time by 40% under heavy traffic spikes through targeted Redis caching, query plan optimization and PostgreSQL table partitioning.
- Spearheaded the frontend migration to Nuxt 3 (Nitro), cutting First Contentful Paint by 35% for users during high-velocity live events.

Fullstack Developer — Circle

Sep 2021 – Dec 2022 · Remote

- Engineered a high-volume USDC/BTC payment gateway on strictly idempotent APIs, guaranteeing zero financial discrepancies or double payouts across partial failures and retries.
- Optimized core database schemas and execution plans, accelerating heavy BI transaction reporting pipelines by 60%.

Fullstack Developer — Y Combinator–backed startup

Feb 2020 – Aug 2021 · San Francisco (Remote)

- Delivered 4 production-ready fullstack MVPs from scratch (Vue, Node.js, MongoDB) in tight cycles, enabling founders to validate seed-stage growth hypotheses.
- Architected resilient Socket.IO notification infrastructure sustaining 5,000+ concurrent active users with real-time event delivery.

SELECTED PROJECTS

- **AffSource — AI video & image creative studio for media buyers** (founder, in development): Architected an end-to-end pipeline from prompt to ready ad creative, in-browser video editor and export. Self-hosted open-weight models (Wan 2.2, Qwen-Image) via ComfyUI on rented GPUs instead of paid APIs, keeping cost per creative low; concurrency-limited hooks × GEOs × formats job matrix; SSE real-time progress with snapshot-on-reconnect; Web Worker-powered ZIP export; moderation linter in 7 languages; nonce-based CSP and RFC 6238 TOTP 2FA built from scratch. *Nuxt 4, Nitro, Canvas, Web Workers, Go, ComfyUI.*
- **ORYX — USDT investment platform ledger:** Designed an immutable, append-only double-entry journal enforced at the PostgreSQL constraint level — provably balanced at commit, with UPDATE / DELETE / TRUNCATE locked out; strict key-based idempotency and 18-decimal bigint precision for zero-loss asset tracking. *NestJS, PostgreSQL, Drizzle.*
- **Ares-Nexus — order-matching engine:** Engineered a high-throughput matching engine on Redis Sorted Sets with a PostgreSQL double-entry ledger; <50 ms order-to-UI and a smooth 60 FPS PixiJS order book over throttled WebSockets.
- **Ares-X & Fundory — provably fair gaming & Telegram Mini App:** Developed a provably fair game engine on HMAC-SHA512 holding 60 FPS on mobile; shipped a Telegram Mini App with deduplicated BullMQ reward dispatch, cryptographic initData signature verification and automated TRON payouts.
- **Pulsarr — ad tracker (Keitaro / Binom alternative):** Architected a Go click server, NestJS API and ClickHouse reporting; campaign routing, postbacks and real-time stats. *Go, NestJS, Nuxt, ClickHouse, Redis.*

SKILLS

Backend	TypeScript, Node.js, NestJS, Fastify, Nitro / h3, Go, BullMQ, Socket.IO, SSE, REST, OpenAPI / Swagger, gRPC, Zod, class-validator, Pino, distributed locks, idempotency, event-driven design
Frontend	Vue 3, Nuxt 3/4, Pinia, VueUse, Tailwind, shadcn-vue / Radix Vue, TanStack Table & Virtual, TipTap, Vue Flow, Motion, i18n, React, Next.js, Canvas, Web Workers, PWA, SSR / SSG, Core Web Vitals, technical SEO
Data	PostgreSQL, ClickHouse (ReplacingMergeTree, MVs, partitioning), Redis, BigQuery, MongoDB, SQLite, Drizzle, Prisma, ETL pipelines, double-entry ledgers
Infra & quality	Docker / Compose, Kubernetes, AWS, Cloudflare (API, DNS, SSL, R2), Nginx, Caddy, Linux, PHP-FPM tuning, GitHub Actions, pnpm + Turborepo, Changesets, Husky / commitlint, Sentry, Grafana, Vitest, Playwright
Integrations & AI	Meta Marketing API, Google APIs, Telegram Bot API (grammY) & MTProto, Telegram Mini Apps, Namecheap / Dynadot, Cloudflare API, Puppeteer / Playwright automation, proxy routing; ComfyUI, open-weight image & video models (Wan, Qwen-Image), GPU job orchestration
Security	JWT & refresh-token rotation, OAuth 2.0, RBAC, Argon2 / bcrypt, AES-256-GCM, CSP nonces, CSRF, Helmet, rate limiting, TOTP 2FA, HMAC signatures, DOMPurify, audit logs
Domains	AdTech & affiliate (S2S postbacks, attribution, Cellxpert, Binom, Keitaro), iGaming, fintech & crypto payments (USDT, TRON, EVM)

Languages: English — professional working proficiency · Ukrainian, Russian — native