

Vadim Lysenko

Senior AI Engineer · Fullstack Lead — autonomous agent systems, healthcare and fintech products

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Summary

Lead fullstack engineer with 7+ years shipping production software, most recently AI products in US healthcare and fintech. Sole engineer on a healthcare AI assistant across desktop, web and browser extension: 118 PRs and 50+ releases in 11 months. I build LLM pipelines, agent features and EMR integrations end to end, from a Postgres schema to a signed desktop release. I design multi-agent harnesses: hierarchical orchestrator, worker and reviewer agents, long-running loops whose state survives context compaction, and hard gates that keep autonomous agents honest. I author bearing, an open-source governance layer for AI coding agents, and am a maintainer of GitNexus (48k GitHub stars), now a Y Combinator company.

Experience

Krasty Soft — Lead AI Engineer

2024 – Present · Remote

Software agency serving US and EU companies. I lead engineering on client products and run presales estimates and paid technical audits.

Enter Health — Ctrl Enter, AI assistant for medical billing teams · Nov 2025 – Present

- Sole engineer since June 2026 across Electron desktop, web app, Chrome extension and Fastify gateway: 118 PRs, v1.1 to v2.0.54.
- Built Real-Time Mode, an EMR integration layer with adapters for ModMed, eClinicalWorks and CentralReach. It recognises the patient on screen and shows balances, claims and denials.
- Shipped patient payment recording with idempotency and PHI-safe logging, WorkOS SSO, Stripe seat billing with automated meter sync, and an admin usage dashboard.
- Built cross-platform distribution with auto-update: WinGet, DEB, RPM, AppImage and Flatpak via CloudFront.
- Found and documented a high-severity patient-data disclosure path with a verified reproduction.

Enter Health — revenue-cycle platform frontend · Mar 2026 – Present

- Largest frontend contributor since Aug 2026 (46% of commits, 52 PRs): Payers, Denials & Rejections, and Remits & Reconcile across two consoles.
- Fixed unstable API paging in the reconciliation export: 236 of 236 deposits in 3 seconds, verified on production.
- Built a sales demo mode that cannot touch production data, and removed 197 KB of code and a 3.5 MB dependency from every customer bundle.

Sourcerer — AI event discovery platform · Mar – May 2026

- Re-engineered the LLM extraction and deduplication pipeline on NestJS, PostgreSQL, pgvector, OpenAI, Firecrawl and Apify.
- Reached 99.3% event uniqueness across 6,314 production events against a 90% contracted target.
- Built two-pass search with trigram matching, filter relaxation and a vector fallback.

Lead Sniffer — internal AI sales intelligence · Jun – Sep 2026

- Built the first four milestones in two days: agentic identity resolution with cited evidence, email verification, lead dossiers and 6-step outreach campaigns.

Technical audits and presales · 2026

- Delivered a paid code, architecture and security audit of a founder-built AI SaaS: 88 findings with file-level evidence and a prioritised hardening plan.
- Wrote estimates and tender responses for healthcare, logistics and small-business clients, with P50/P80 ranges and AI-assisted versus baseline effort.

XPN — Amazon Marketing Cloud analytics · Nov 2025 – Feb 2026

- Built drill-down analytics grids in React and TypeScript over a FastAPI backend, and set up automated LLM code review in GitHub Actions.

OOLU — fractional executive hiring marketplace · Nov 2024 – Oct 2025

- Lead frontend engineer with 79% of commits: swipe matching, onboarding and interview flows, Stripe Connect payments and subscriptions on Next.js 15.

H1 Card — Senior Engineer, contract

Aug – Sep 2026 · Remote

EU corporate card and expense management platform.

- Cut the gzipped entry bundle from 3.58 MB to 1.54 MB (–57%) with route-level code splitting and dependency pruning.
- Migrated Create React App to Vite and upgraded dependencies: npm audit advisories from 78 to 2, none critical or high.
- Fixed 46 Redux selectors that re-rendered on every dispatch, and removed a guaranteed failed auth request from every cold load.
- Built AI agent-chat reports across React and FastAPI with an allow-list HTML/SVG sanitiser, charts, CSV/XLSX export and cross-repo contract tests.
- Built a Playwright E2E harness with 75 checks and a Storybook design lab with 93 stories. 77 PRs merged in 7 weeks.

Earlier client work

2018 – 2024

From 2023 I worked through agencies on several client contracts in parallel.

- **Healthcare client (NDA)** — Senior Frontend Engineer · 2023–2025: real-time vital-signs monitoring with WebSockets and D3.js.
- **Yalantis** — Technical Team Lead, Frontend · 2023–2024: led the team on a data marketplace with ChatGPT-powered queries.
- **Trading Technologies** — Frontend Engineer · 2023–2024: low-latency trading UI with Canvas rendering and Playwright E2E tests.
- **Apro** — Frontend Engineer · 2023–2024: cloud banking platform for document management and transactions.
- **Axon** — Technical Team Lead, Frontend · 2022–2023: Chrome security extension for malware and privacy protection.
- **Forte Group** — Software Engineer · 2022: ad campaign planning tool used by Disney, Colgate and H&M.
- **Akvelon** — Software Engineer · 2018–2022: Chrome extension integrating Microsoft Dynamics CRM, Gmail and LinkedIn.

Open source and products

- **bearing** — author, featured by Akon Labs (YC S26). Governance layer for AI coding agents (Claude Code, Codex, Zed), published on npm: hook-enforced review gates, project invariants that survive context compaction, adversarial multi-agent audits and an eval harness. Used on six client codebases; about 4,000 npm downloads since August 2026.
- **GitNexus** — maintainer, 11 merged PRs. Code knowledge graph for AI assistants with 48k GitHub stars. Built JavaScript and Vue scope resolution, NestJS route indexing and impact-analysis fixes.
- **whiz** — author. Local-first transcription with speaker recognition, screen frames and AI summaries. Python CLI and a native SwiftUI macOS app on whisper.cpp and sherpa-onnx.
- **mynah** — author. Push-to-talk dictation that types each sentence as you pause, on macOS and Linux Wayland.
- **Event Horizon** — author. TypeScript extension for the Vortex mod manager that rebuilds hash-verified setups on another machine. 5,000+ downloads on Nexus Mods.

Skills

- **AI and LLM:** multi-agent orchestration, agent harnesses and evals, autonomous loops, Claude Code hooks and sub-agents, LLM pipelines, MCP servers, RAG and pgvector, OpenAI and Anthropic APIs, PydanticAI, prompt-injection defences, LLM cost tracking, Claude Code, Codex
- **Frontend:** React 19, Next.js, TypeScript, Redux Toolkit, MobX, Zustand, TanStack Query, MUI, Ant Design, Tailwind, Storybook, Vite
- **Backend:** Node.js, NestJS, Fastify, Python, FastAPI, REST, WebSockets, BullMQ, Celery
- **Data and cloud:** PostgreSQL, pgvector, Supabase, Redis, DynamoDB, AWS (S3, CloudFront, Lambda, SQS), Vercel, Railway, Docker
- **Platforms:** Electron, Chrome extensions, Capacitor, SwiftUI for macOS
- **Integrations:** Stripe, WorkOS, Auth0, EMR systems (ModMed, eClinicalWorks, CentralReach), NetSuite
- **Quality and delivery:** Playwright, Jest, Vitest, CI/CD, Sentry, OpenTelemetry, performance profiling, security reviews, technical leadership

Education and languages

- **Donetsk National University** — Master's degree, Information Technology, 2012–2018
- **Languages:** Ukrainian (native), English (C1)