# Vladimir Pirotskiy

Lead Full-Stack Developer · Next.js, TypeScript, Node.js and Rust

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## SUMMARY

Lead full-stack developer with 7 years of commercial experience since 2019 across agritech, e-commerce, AI, fintech, blockchain and medical. At the outstaff company Abraham Int. from 2022 to October 2026, I led development of a client's US agritech e-commerce platform end to end, from the business problem to production: a Rust search API over 1.8M parts with query p95 cut 4.5x, Stripe checkout, LLM features, technical SEO, and compute, hosting and CI spend cut by 64% (database excluded). I set up an agentic AI development workflow there, with coding agents under code review, tests and CI, and migrated two backend APIs from TypeScript (NestJS, Bun) to Rust.

## EXPERIENCE

**Abraham Int.** 2022 – 2026 · Israel

**Lead Full-Stack Developer** · US agritech e-commerce platform (client project) 2025 – 2026

- Engineering lead for the storefront, search API, backend services, deploys and cloud operations: architecture, code review, releases and production (Next.js 16, Rust, Bun on Google Cloud Run, PostgreSQL). Worked with data engineering, SEO and the business owner.
- Built search that starts from the machine, not the part number, and migrated its API from NestJS to Rust: 1.8M parts across 60+ brands, close to a million requests a day at p95 under 50 ms. Cut p95 of full search queries 4.5x (2.2 s to 0.5 s, 170-query benchmark).
- Shipped LLM features: an AI fallback for zero-result searches, checked against the catalogue before display, and an MCP endpoint for AI assistants. Prototyped tractor identification from a photo with a vision model and OCR of labels.
- Shipped checkout: Stripe payments, US shipping rules and automatic hand-off of paid orders to the dealer's ERP.
- Technical SEO for a large catalogue: an indexing policy, structured data and real HTTP status codes from a streaming Next.js app. Google impressions reached 2.4x the pre-launch level (October against August 2026).
- Cut compute, hosting and CI spend by 64% (June to October 2026, database excluded) and phone LCP p75 from 2.5 s to 1.7 s.
- Set up agentic engineering: AI coding agents under review gates, test-first rules and CI, local and API models combined, and measured the agents' cost every week. 2,300+ pull requests merged in 91 days across storefront, search and services, shipped to production on 37 of those days.
- Security work with Claude Mythos (the organisation's approved access): team defences against AI-assisted attacks.
- Defended the platform against automated attacks: detected and contained a distributed scraping campaign against the catalogue within hours (firewall rules, sign-in gating, monitoring with alerts) and shut down email list bombing through the contact form.
- DevOps and quality as code: 26K+ unit and 1,520 browser e2e tests on the storefront, 63 CI workflows, 43 drift-checked alert policies.

Stack: Next.js, TypeScript, Rust, axum, tokio, Bun, Hono, PostgreSQL, Google Cloud Run, Terraform, GitHub Actions, Stripe, Vercel

**Full-Stack Developer** · Corporate management platform and other client projects 2022 – 2025

- Moved backend logic from a Node.js API to Next.js server components and server actions: faster pages and more organic traffic.
- Built and ran Node.js REST APIs serving 10k+ requests a day at 99.9% uptime.
- Led estimation and sprint planning for an agile team.

Stack: React, Next.js, TypeScript, Zustand, Redux Toolkit, Node.js, Drizzle, SQLite, AWS, Vitest

**Full-Stack Developer** · Cryptocurrency exchange MVP 2021 · Contract

- Delivered the MVP of a cryptocurrency exchange.

Stack: TypeScript, React, Node.js

**Full-Stack Developer** · Medisafe, medical 2020 – 2021 · Haifa, Israel

- Built a template flow builder that cut deployment from 4 hours to 30 minutes.
- Made the medical data APIs 35% faster over 50k+ patient records.
- Worked on Java (Spring Boot) microservices behind a product with 100k+ monthly active users.

Stack: TypeScript, Node.js, Java, Spring Boot, Angular, MySQL, MongoDB

## OPEN SOURCE

- Merged: tokio-rs/topcoat (#575), fallow (#4038), rolldown (#11456), tokio (#8755, #8756).
- In review: goose, sqlx, Biome, napi-rs, Next.js, utoipa, happy-dom.
- Own: mcp-commerce-evals, evals for AI shopping assistants over MCP (Rust, axum).

## SKILLS

**Frontend:** TypeScript, React, Next.js, Tailwind CSS, TanStack Query, Zustand, Canvas 2D, Three.js, WebGL, 3D and AR, Angular

**Backend:** Rust, axum, tokio, Topcoat, utoipa, Node.js, Bun, Hono, Zod, NestJS, Stripe, Clerk

**Data:** PostgreSQL, SQL migrations, Data analysis, Apache Airflow, ETL, Drizzle ORM, SQLite, MongoDB

**DevOps and cloud:** Google Cloud Run, AWS, Vercel, Cloudflare, Docker, Terraform, GitHub Actions, CI/CD, Linux, OpenTelemetry

**Security:** Bot and scraping defence, WAF rules, Rate limiting, Content Security Policy, Dependency audits

**AI:** AI coding agents, Claude Mythos, LLM product features, Hybrid LLM pipelines, Local LLMs, Computer vision, YOLO, OCR, MCP, LLM evals

**Quality:** Playwright, Vitest, Testing Library, axe-core, Biome **Hardware:** GPU fleets, Firmware flashing, IoT devices

## EDUCATION

**BSc, Information Systems and Technologies**, Igor Sikorsky Kyiv Polytechnic Institute

**Java, DevOps and project management courses**, Hillel IT School

**Courses**, LinkedIn Learning, Oct 2025: Next.js, React, TypeScript, Node.js, LPIC-1 101, LPIC-1 102, networking, SQL, JavaScript.

**LANGUAGES** English (near-native), Ukrainian (native), Russian (native).

**LOCATIONS** Relocated to Israel in 2020, on-site there for 1.5 years; then remote, and on-site at a client's office in Dubai, UAE.

**BEFORE 2019** Own GPU mining venture in the EU, 2017–2018: 1,000+ GPUs in my care, modified firmware, internal fleet tools.