

Oleksii Mielnikov

AI Engineer · Full Stack (TypeScript / React / Next.js)

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SUMMARY

Engineer with 10+ years in production web development, now building **LLM-powered products end to end** — from prompt design and agent architecture to the interface the user actually touches. I work where the model meets the product: designing prompts and evaluations, wiring tool use and MCP integrations, controlling cost and latency, and shipping it as a real application on Next.js and TypeScript. My frontend background is the advantage, not the past — I know how an AI feature must behave in the browser to feel trustworthy rather than magical. Currently in EPAM's **AI Native Engineering** program, preparing for the **Anthropic Claude Certified Architect — Foundations** exam (18 November 2026).

CORE SKILLS

AI / LLM. Claude API (Anthropic) · OpenAI-compatible APIs · prompt engineering & prompt evaluation · tool use / function calling · agent design & multi-agent orchestration · Model Context Protocol (MCP) · RAG fundamentals · cost, caching & latency optimization · AI-assisted SDLC and developer tooling

Engineering. TypeScript · JavaScript (ES2015+) · React · Next.js (App Router, SSR/ISR) · Node.js · Supabase / PostgreSQL (schema design, RLS, auth) · REST APIs · HTML/CSS, BEM · AEM · Vercel, CI/CD · accessibility (WCAG), RTL/i18n · clean code, code review

Ways of working. Product thinking over ticket-closing · requirements analysis & estimation · cross-functional collaboration (design, backend, QA) · mentoring and knowledge sharing

Languages. Ukrainian (native), Russian (native), English (Upper-Intermediate, B2)

EXPERIENCE

Software Engineer — EPAM Systems

May 2019 — present · large-scale products for international clients (EdTech, UK telecom); since 2025 — AI-native engineering

- Build and operate **LLM-driven automation for the software delivery lifecycle** — agent-based tooling that takes a task from specification through implementation to a reviewable change, with quality gates at each step.
- Design **prompts, agent instructions and skill definitions** as maintainable engineering artifacts: versioned, reviewed, and measured — not one-off text.
- Instrument AI workflows with **telemetry on cost, token usage and run economics**, and use it to drive down the price and latency of each run.
- Feed findings back into the platform: report failure modes and gaps to the tooling owners, turning day-to-day usage into concrete product improvements.
- Continue delivering production frontend: responsive interfaces in React and AEM, full **WCAG accessibility remediation**, and complete **RTL support** for Arabic and other right-to-left locales.
- Selected for EPAM's **AI Native Engineering** program; part of the internal GenAI certification track (Anthropic → AWS → Google Cloud).

Front-end Developer — Sigma Software Group · November 2017 — May 2019. Requirements analysis and development effort estimation for client projects; responsive interfaces with semantic, validated markup and full cross-browser support; close collaboration with QA and design.

Frontend Developer — Web Studio Brander · May 2015 — November 2017. Responsive, scalable interfaces in HTML, CSS and JavaScript; estimation and requirements analysis alongside development; optimized solutions delivered with design and backend teams.

PROJECTS

WorldVote.app — solo product, in production

Next.js · TypeScript · Supabase · Claude API · Vercel — a daily question the whole world votes on, with live results on an interactive map; architecture, database, AI layer, frontend and deployment are entirely mine

- Claude API generates and moderates the daily question**, so the product produces fresh content every day with no manual work.
- Designed the Postgres schema and **row-level security in Supabase**, including abuse protection for anonymous voting.
- Ran an honest funnel audit of my own product and rebuilt the roadmap around retention rather than traffic.

alexmell.dev — portfolio & personal dashboard · Next.js · NextAuth.js · Supabase. Personal site plus a private dashboard tracking finances, sport and learning — my sandbox for data modelling, auth and dashboard UI.

CERTIFICATIONS & EDUCATION

- Anthropic Claude Certified Architect — Foundations (CCA-F)** — exam scheduled 18 November 2026 (*in preparation*). **Next:** AWS Certified AI Practitioner (AIF-C01) → AWS Certified Generative AI Developer — Professional (AIP-C01)
- Anthropic Academy** — 8 completed courses: Claude & Claude Platform fundamentals, building with the Claude API, prompt engineering, prompt evaluation, tool use, Model Context Protocol, subagents, AI capabilities & limitations
- Master's degree, Marketing** — National Aerospace University «Kharkiv Aviation Institute», 2009–2014 · **JavaScript** — Spalash School, 2015