Nazar Mykhailyshchuk

Software Engineer | Full-Stack & Backend

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SUMMARY

Full-stack engineer who builds and ships web products end to end with Next.js, Supabase, Python and Rust, often with an LLM in the pipeline. Shipped a live online shop with Monobank payments (about 500 registered users, 140 buyers per day) and a charity-ball ticketing site; built three hackathon AI agents and a self-hosted LMS core in Rust. Writes tested, documented code (REST APIs, Docker, CI). English B2, Ukrainian native.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, Rust, C++, SQL
Frontend: React, Next.js, Tailwind CSS, Astro, Tauri
Backend: Node.js, Spring Boot, FastAPI, Django, REST APIs, webhooks, authentication (JWT, OAuth 2.1/PKCE)
Data: PostgreSQL, MySQL, Supabase, Redis
AI: LLM APIs (OpenAI, Gemini, Groq, Ollama), AI SDK, AI agents, MCP, llama.cpp, prompt A/B testing, LLM output validation, OCR
Engineering: Docker, Git, Linux, GitHub Actions CI/CD, Vercel, Pytest, JUnit, Vitest, code review, technical documentation

EXPERIENCE & PROJECTS

Freelance Developer — Self-employed, Lviv — Oct. 2026 – present

- Scoping and developing an Instagram AI assistant for a Lviv door manufacturer that answers customer questions and turns conversations into leads (phone number or showroom visit), with a CRM integration planned.
- Ran the discovery meeting with the company's CEO and defined the assistant's requirements and scope.

UCUSnack — *Online Shop for a Dormitory Micro-Market* — ucusnack.app | 2026

Next.js, Supabase (PostgreSQL), Monobank

- Built and shipped an online shop for a dormitory micro-market, live with about 500 registered users and 140 buyers per day: catalog search, cart, barcode scanner, admin back office (products, stock per dormitory wing, coupons, orders) and online payments through the Monobank API.
- Secured the Monobank payment flow with webhook signature verification.

Vartovi Mrii — *Charity Ball Website and Ticketing (organizing team)* — 2026

Next.js, Supabase, QR code generation

- Part of the organizing team of the charity ball «Vartovi Mrii» (Plast, Kolomyia); built the event's landing site with QR e-tickets and an admin panel for tickets.

Silpo Party — *AI Group-Shopping Agent (Hackathon, team of 4)* — Demo | Code | Sep. 2026

Next.js, TypeScript, Supabase (PostgreSQL), AI SDK, MCP

- Built a chat agent that turns a group conversation (up to 10 people, 3 modes) into a budget-aware, restriction-safe shopping basket grounded in the live Silpo catalog through MCP, with a fair cost split.
- Prevented invalid agent output from reaching users with a deterministic validation layer covered by 123 automated tests; secured the integration with OAuth 2.1/PKCE and encrypted credentials.

Vumlo — *Self-Hosted Learning Platform (sole developer, open source, in active development)* — Code | 2026

Rust, PostgreSQL, Next.js, Tauri, Docker

- Building an LMS core in Rust that a school or university runs on its own server: courses, groups and rosters, assignments with quizzes and forms, a gradebook, password and Google sign-in.
- Ships a Next.js web app and an optional offline desktop app (Tauri).

Planly — *AI Agent for Group Plans (Hackathon, team of 4)* — Code | Feb. 2026

Python, FastAPI, Ollama (Llama 3.1), OCR, Telegram Bot, Supabase, Google Calendar API, GitHub Actions

- Built an LLM agent that reads group chats (Telegram messages or OCR of screenshots) and creates calendar events and venue suggestions with 3 tools, behind an 18-endpoint FastAPI backend.
- Covered intent extraction, tool validation and auth with 103 automated tests; shipped installers for 3 operating systems from one GitHub Actions pipeline.

More at partum55.me: 15x4 (lecture platform), Hirely (AI career assistant), terllm (local C++ model), VIO (C++ odometry), Vepryk 6+ (C++ robot app), SemEval RETECO.

ADDITIONAL EXPERIENCE

Peer Mentor — Ukrainian Catholic University — 2025 – 2026

- Mentored two first-year teams on graph-algorithm and data-compression projects by reviewing unfamiliar code, diagnosing implementation issues and challenging trade-offs at project defenses.

EDUCATION

Ukrainian Catholic University, Lviv, Ukraine — Sep. 2024 – May 2028

Bachelor of Science (BSc) in Computer Science, 3rd year

CERTIFICATIONS & LANGUAGES

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (Oct. 2025) | Ukrainian (Native), English (B2)