

Oleksandr "Alex" Dementiev

SOFTWARE ENGINEER

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EXPERIENCE

Software Engineer

Sep 2025 - Present

Zephyros Control Room / University → Contract

Full-stack SCADA monitoring and operator-training platform for World Class Maintenance's Fieldlab Zephyros — an unmanned offshore-wind control room. Real-time fleet monitoring across six sensor categories, an automatic alarm engine and a predictive component-health model that forecasts failures before they happen. Added a scenario-replay training simulator (six failure types, four modes, scored quizzes); shipped with RBAC, a bilingual UI and 1000+ automated tests under CI/CD.

Vue.js · Laravel · Python · MySQL

Independent Software Engineer

May 2026 - July 2026

Trumka / Side Project

Production-ready algorithmic trading system for perpetual futures (live & paper) where an LLM acts as strategist and an isolated Python risk engine enforces hard guardrails — leverage clamping, margin locking, gross-exposure caps — so the autonomous agent can never exceed operator-set limits. Scales horizontally to unlimited parallel sessions, each with its own isolated book, strategy parameters and per-phase AI model.

Vue.js · FastAPI · Python

Independent Software Engineer

Nov 2025 - Feb 2026

UMKA / Side Project

AI desktop assistant that grew from a natural-language PC controller into a full personal-assistant agent. Multi-agent architecture spanning 28 system controllers and 25 external API integrations. Features desktop version, as well as mobile version with a WebSocket job system handling immediate, scheduled and recurring tasks from plain-language commands.

SvelteKit · Bun · Elysia · Python

Software Engineer

Mar - Jul 2025

Infodatek Group / Internship

AI documentation platform shipped to production for a SaaS ERP (RentMagic), replacing a manual knowledge-base rewrite after every release. The self-updating KB and integrated AI chatbot cut update work dramatically and reduced inbound support questions. Built on hierarchical AI prompting with codebase analysis, semantic search, a human-in-the-loop audit panel and a RabbitMQ job pipeline.

Vue.js · Node · PostgreSQL · RabbitMQ · Docker

EDUCATION

B.Sc. Information & Communication Technology

HBO-ICT, track Software Engineering · HZ University of Applied Sciences, Middelburg

2022 - 2027 (expected, incl. gap year)

Minor — Applied AI & Ethics

HZ University of Applied Sciences, Middelburg

STACK

LANGUAGES

TypeScript · JavaScript · Python · PHP

FRONTEND

Vue.js · Nuxt · SvelteKit · Tailwind · Three.js

BACKEND

Node · Deno · Bun · Elysia · FastAPI · Laravel · RabbitMQ

DATABASES

PostgreSQL · MongoDB · MySQL · Supabase

DEVOPS & AI

Docker · Git · Linux · CI/CD · GraphQL · LLM APIs

FOCUS

- Full-stack development
- Live monitoring systems
- AI automation
- Developer tooling & DX
- End-to-end ownership

SPOKEN LANGUAGES

Ukrainian	NATIVE
Russian	NATIVE
English	C1
Dutch	A2
French	A2

INTERESTS

Electronics · 3D modeling · Photography · Trading