

Ilia Kuzmin

Senior Delphi Engineer · Legacy Systems & Long-Term Stability · Keeping Critical Software Alive

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PROFILE

I specialise in systems other engineers avoid — deeply entangled, poorly documented, business-critical. When a team loses the only person who understood the codebase, I come in, read the archaeology, and make the system **legible** — for whoever comes next. I reduce bus factor structurally: documenting decisions, isolating modules, making inherited knowledge queryable — not just by me, but by the whole team.

My approach across 20 years: **stability before speed**. Legacy is not technical debt to apologise for — it is a competitive moat when you know how to work with it. I build things meant to last, and migrate them carefully when they need to move.

KEY NUMBERS

70+

modules migrated
Windows→Linux, near-solo

100+

bugs resolved — ~10 extreme
severity, open for years before me

300k

beneficiaries served by a system
built from scratch

\$2M+

revenue from a platform I
architected over 10 years

EXPERIENCE

Senior Delphi Engineer

Oct 2022 – present · Remote

Consyst Business Group

TURBO — one of the oldest ERP platforms in Eastern Europe. 1M+ lines of code.

- Promoted to Senior within 1 year; became 1 of 2 key engineers on the platform within 3 years
- Resolved 100+ bugs including ~10 extreme-severity issues open for years before reaching me
- Migrated major desktop modules Windows→Linux using Delphi + FMX, keeping UI behaviour consistent across platforms
- Maintained and extended the template system — a spreadsheet-style module used across the platform
- Extended Turbo Script engine: added functionality, improved automation coverage
- Investigated cross-language integration failures between Delphi and C# via .NET/Roslyn
- Refactored legacy code for readability; documented non-obvious system behaviour to reduce bus factor

Senior Software Engineer / Project Manager

Jul 2012 – Sep 2022 · 10 years

Adonweb

Content and SEO automation platform.

- Architected two parallel systems: automated site factory (2,000+ sites, \$2M+ estimated revenue) and internal content operations tool for the editorial team
- Maintained the codebase as team foundation for a decade as requirements and team evolved around it
- Built WebArchive domain parser that surfaced a \$200k auction-value domain acquired for under \$20
- Developed content pipelines, REST integrations, multithreaded and client-server applications — all in Delphi

Lead Delphi Developer

Mar 2008 – Mar 2012 · 4 years

SocTechService — State Budgetary Institution, Novosibirsk Region

- Built Benefits Monetisation system from scratch — enabled 300–400k residents to switch from in-kind benefits to cash payments
- Migrated legacy dBase database to Firebird; sole architect and developer of the full module suite
- Authored technical documentation that outlasted my tenure on the project

Delphi Software Developer

Sep 2006 – Feb 2008

CJSC Logos

- Developed modules for environmental payment calculation system (Delphi 7 + BDE + dBase)
- MS Office integration via OLE Automation; WinAPI and custom DLLs for extended functionality

SELECTED PROJECTS

Agentic Coding Loop in Delphi

github.com/rm3g25/delphi-loop

Working generate→review→refine agent inside RAD Studio using Ollama and Claude API. First known implementation in the Delphi ecosystem. Published in English and Russian.

SKILLS & TECHNOLOGIES

Core	Delphi / Object Pascal · FMX · VCL · Legacy Systems · Windows→Linux Migration · OOP/SOLID · Software Architecture · Bus Factor Reduction
Libraries	EhLib · FastReport · DevExpress · FireDAC · Indy · TMS VCL · JEDI · Virtual Treeview · BDE · Subversion · Git
Other	SQL (MySQL · Firebird · PostgreSQL) · REST/HTTP APIs · Multithreading · Client-Server · .NET/Roslyn · LLM Integration · Ollama · Claude API
Languages	Russian — Native · English — B2
Personal	Moon 2D game (Delphi + OpenGL + WinAPI, 2006 – present) — solo project, still maintained

EDUCATION & CERTIFICATIONS

SibSUTIS — Engineer (5yr), Software Engineering · 2001–2006

Novosibirsk, Russia

Thesis: "Comparison and Analysis of Dictionary Data Compression Algorithms" — Excellent. Distinctions in OOP, Computer Graphics, Operating Systems, Theory of Computational Complexity.

SQL for Development · Yandex Practicum · Sep 2024 · PostgreSQL, DDL/DML, JOINS, CTEs, window functions, ACID, stored procedures, indexes, query plan analysis.

AVAILABILITY

Open to senior and lead roles — remote worldwide or relocation to EU. Requires work sponsorship.