

KYRYL BOGACH

Senior Software Engineer & AI Systems Architect

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SUMMARY

A problem-solving engineer at heart and lifelong technology enthusiast, driven by the challenge of deconstructing complex problems. My core principle is to invest heavily in the analytical phase, believing a well-defined problem contains its own solution. This first-principles approach ensures the architecture of robust, scalable, and effective full-stack solutions, with a growing focus on architecting and leading AI-driven systems.

PROFESSIONAL EXPERIENCE

Technical Lead / Senior Software Engineer Manifest OS

Remote - USA
2026 - Present

- Promoted to Technical Lead after 3 months, leading a team of 5 engineers and driving hiring decisions for the growing engineering organization.
- Architected the migration from B2B/B2C to a unified B2X platform, implementing Row-Level Security (RLS) and redesigning the product catalog with a dynamic builder for services and addons.
- Spearheaded an AI-first development methodology and led a 2-week hackathon POC with 5 engineers, delivering a complete working solution.

Lead AI Systems Architect Freelance

Remote - USA

- Architected and engineered advanced Retrieval-Augmented Generation (RAG) pipelines for intelligent document processing, implementing metadata injection and dynamic filtering to enhance retrieval accuracy and reduce latency.
- Leading the design and development of a proprietary, end-to-end conversational AI platform using custom LLMs and state-aware memory architectures (LangChain/LangGraph) as a secure alternative to commercial offerings.
- Developing a multi-agent AI system (swarm intelligence) to autonomously tackle complex business problems by enabling agents to collaborate, delegate sub-tasks, and achieve goals beyond the scope of a single model.
- Built the secure, multi-tenant backend (Fastify, GraphQL, Prisma) and dynamic frontend (Next.js, TypeScript) to support and visualize AI workflows, including OCR/LLM data from models like Gemini and Mistral.
- Pioneering a Natural Language Querying (NLQ) interface to democratize data access for non-technical users and to reduce operational costs.

Senior Full Stack Software Engineer Myworkout

Remote - Norway
2020 - 2026

- Spearheaded full-stack projects using Laravel, Vue.js, and Angular, applying TDD, DDD, and Event-Driven Architecture to enhance code reliability for a user base of over 150,000.
- Reduced sensor data storage costs and disk usage by 75% by re-architecting the storage solution, migrating from a pure database implementation to a hybrid S3 approach.
- Led the complete migration from a legacy Jenkins CI/CD pipeline to GitHub Actions, improving deployment speed, reducing operational costs, and increasing developer autonomy.
- Engineered and optimized asynchronous job processing systems to handle large data payloads and complex, chain-reaction updates, such as the "streak" feature implementation.
- Actively contributed to product strategy and innovation through OKR planning and company-wide hackathons, leading to features like the "2024 Recap" to increase user engagement.

Senior Software Engineer Consultant TechTorch

Remote - USA
2022 - 2025

- Acted as the primary technical advisor to the CTO, shaping engineering strategy and aligning it with long-term product vision and business objectives for an AI-driven content platform.
- Led a critical technology pivot from Quill.js to Tiptap, presenting the new roadmap, estimates, and demo to C-level executives to enable superior real-time editing and native AI integration.
- Designed and engineered a scalable, Notion-like platform using Next.js and Vercel, featuring an event-sourced system for real-time collaboration and intelligent data retrieval.
- Integrated advanced AI features using a vectorized database, significantly enhancing automation and intelligent search capabilities. Optimized customer resources and reduce turnaround time by 20%.
- Reduced costs and accelerated time-to-market by replacing custom admin panels with AdminJS.

Mid Software Engineer SmartWayStudios

Hybrid - Spain
2020 - 2020

- Designed and implemented custom full-stack solutions for diverse clients, managing project estimations, technology selection (Laravel, .NET, Vue), and development efforts.
- Established company-wide development standards for .NET and Laravel to streamline development, ensure maintainable code, and onboard new team members efficiently.
- Managed multiple projects concurrently for clients like Avatel, Aquaservice, and Roly.

Junior Software Engineer Scorpora Tecno App SL

Onsite - Spain
2018 - 2020

- Developed and maintained applications for major telecommunications clients (Movistar, Jazztel), modernizing a legacy PHP, JavaScript, and SQL codebase.
- Reverse-engineered a proprietary competitor tool, extracting its core logic into a reusable microservice that reduced development time.

EDUCATION

Software Engineering, B.S. Murcia University

2015 - 2019

- Qualified for Murcia Olympics of Programming & SWERC.
- Graduated with honors in 14 subjects.

English C1 - Advanced

2020 - 2020

Cambridge Assessment English