

Mansur Kakushkin

Senior Systems Analyst · System Architecture · Integrations · AI Engineering

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PROFILE

Senior Systems Analyst with 7+ years in enterprise technology (X5, Sber). I own problems end-to-end — translating business logic into system requirements, designing architecture, defining APIs and data structures, building integrations, and following through to production. I also build AI-powered systems and apply LLM, RAG, Graph RAG, knowledge graphs and AI agents to engineering work. Designed and built AI Code Knowledge Platform. Contributed to a product that received patent RU2732071C1 for automated legal analysis.

EXPERIENCE

X5 Tech

Sep 2025 — Present

Senior System Analyst · Moscow / Remote

- Coordinate delivery across 2 project teams and 1 product team — defining priorities and directing day-to-day work across developers, analysts and QA
- Redesigned the requirements-to-development workflow around AI-assisted specifications, Git-based documentation and automated test generation — reducing idea-to-feature delivery time by 30–40%
- Introduced AI-assisted incident investigation with structured technical context and MCP integrations, reducing production incident resolution from 2–3 days to under 1 day
- Conceived, designed and built AI Code Knowledge Platform — a full-stack system that automatically extracts knowledge from codebases, generates documentation and provides AI chat over system context. Scaled from personal workflow → 5 analysts → multiple teams
- Embedded AI across the delivery pipeline — requirements engineering, documentation, test case creation, API specification review and code analysis — establishing AI as a core delivery tool

X5 Tech

Oct 2023 — Aug 2025

System Analyst · Moscow / Remote

- Designed architecture for a large-scale tax monitoring platform integrating with ~7 external systems (SAP, FNS, signing/EC services), serving 9 legal entities and 40+ users
- Designed a schema-driven approach: XSD → JSON Schema → UI generation pipeline, eliminating developer involvement in supporting new schema versions
- Integrated new data sources for automated report generation, reducing manual workload equivalent to approximately 2 FTE
- Defined API contracts and integration interfaces between SAP, PostgreSQL, ClickHouse and internal services

Extrum

Nov 2022 — Sep 2023

Business / System Analyst · Astana

- Collected requirements, wrote technical specifications and coordinated architecture decisions with customers and development teams
- Managed backlog, priorities and timelines; assembled the development team and directed deliverables

Sber

Dec 2018 — Oct 2022

System Analyst · Moscow

- Co-created an ML-based document generation service achieving 90% F-measure in collaboration with the data science team
- Developed and maintained LegalTech projects automating due diligence processes in corporate lending
- Built an internal analytics service for the audit team; developed Python-based DSL tooling for automated due diligence

KEY PROJECT

AI Code Knowledge Platform · X5 Tech

Designed and built a product that automatically extracts knowledge from codebases and generates structured documentation — domain, database, architecture and functional specs. Used by analysts, engineers, support teams, testers and managers for system understanding and onboarding.

IMPACT

5×

resource
optimization

30–40%

idea → feature acceleration

~3×

faster
incident
resolution

RU2732071C1

patent — automated legal
analysis

AI / RESEARCH

Building AI Code Knowledge Platform. Applying Graph RAG, knowledge graphs, semantic search and AI agents with MCP to accelerate system analysis, code understanding and documentation.

Knowledge Extraction Graph RAG Knowledge Graph
MCP AI Agents LLM RAG

TECHNICAL STACK

DATA & INFRASTRUCTURE

PostgreSQL ClickHouse Redis Docker Grafana
Airflow

AI

FastAPI React Memgraph Cognee MCP

API / INTEGRATION

REST API Kafka SAP JSON Schema XSD

LANGUAGES

Python JavaScript SQL

CORE EXPERTISE

System Architecture Integration Architecture
API Design Data Pipelines AI / LLM / RAG
Knowledge Graphs MCP / AI Agents
Software Engineering