



Vladimir Preobrazhenskiy

Product Builder / Tech Lead / AI Engineer

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SUMMARY

IT specialist with over a decade of experience developing and managing innovative products. Passionate about leveraging AI to create impactful solutions that drive business value and client satisfaction. Expert in conversational AI driven systems, architecture, DevOps practices and cloud infrastructure, with a strong background in programming and data analysis. Proven leader able to join or manage cross-functional agile teams to deliver top solutions and products. Languages — Russian (native), English (B2). ~5 years in Conversational AI; won the Rasa 2025 Agent Building Challenge.

EXPERIENCE

Consultant / AI Engineer · Independent Consultant and AI Engineer

Jul 2023 - Present

Independent consulting on AI engineering, solution architecture and cloud infrastructure.

- **Simba Finance (2026.04–2026.05) — AI Agent for Financial Planning.** Designed the architecture and domain model; built a financial-model computation engine cross-checked against an expert Excel model; built a conversational agent on Anthropic answering seller questions about the model and the app; implemented What-If analysis recomputing the model with changed parameters in ~1s. `Python` `FastAPI` `Polars` `Postgres` `Docker` `LLM` `Tool Calling`
- **StoryJar (2024.02–2025.09) — AI-Powered Story Generation POC.** Developed an end-to-end RAG-based story-generation prototype; ~97% face-recognition accuracy with a custom service; semantic search across media objects; owned the lifecycle (hiring, kanban, solution architecture); deployed scalable infra on AWS / Digital Ocean / Hugging Face with automated CI/CD. `Python` `FastAPI` `Flutter` `InsightFace` `Postgres` `Docker`
- **QRit (2023.07–2024.02) — Payment Processing Platform.** Built cloud infrastructure and CI/CD pipelines from scratch to support intensive development. `Node.js` `TypeScript` `Next.js` `Postgres` `Redis` `Terraform`
- **Agent Building Challenge.** Won Rasa's 2025 Agent Building Challenge for conversational systems. `Python` `Rasa` `LLM`

Tech Lead · Insitech Development

May 2021 - Dec 2023

Realtalk — a multiuser software complex enabling goal-oriented voice dialogues across a wide range of scenarios. Led hiring, the dev & delivery process, architecture design, infrastructure management, feature POCs and tender preparation. Stack — DEV/INFRA: `Gitlab` (CI), `Ansible`, `Terraform`, `Docker Swarm`; ARCH: `Microservices`, `SIP`, `Yandex Cloud`, `NGINX`, `Postgres`, `Redis`; DEV: `Python`, `BERT`-based custom intent model, `Vue` + `TypeScript`.

- **Realtalk.** Invited after X5 to lead a small team building similar services for the market; recomposed the team for the best results.
- Delivered the core real-time telephony component: speech synthesis / pre-recorded audio, multi-intent detection from the peer's utterance, interruption handling, a web-based dialogue-creation framework, digression handling (FAQ, silence, chitchat), scalability up to **1M** call attempts/day, with better stability, maintainability and compute efficiency than the previous solution.
- Reached top-competitor conversion rate for the NPS/CS collection case within 1 year of product start.
- Got Realtalk **added** to the official Russian software registry — fully redesigned the technical architecture and delivery process to meet the requirements; achieved higher fault-tolerance as a bonus.
- Automated management of 50+ cloud servers across DEV/TEST/UAT/PROD with `Terraform` + `Ansible`; built an in-house stands-management system to ease delivery.

Tech Lead / Developer & Analyst/PM (hybrid) · X5 Retail Group

Nov 2017 – Apr 2021

Hybrid role (50% Tech Lead/Developer, 50% Analyst/PM) at the Russian grocery-retail leader. Participated in product shaping, ran POCs for internal clients, interviewed tech candidates and developed solutions within the enterprise architecture landscape. Stack — INFRA: `Gitlab`, `K8S` (on-prem); DEV/ARCH: `Scala`, `SIP`, `Python`.

- **R&D in Video Analytics & Speech Technologies.** Initiated the activity and gained executive support; prepared and co-defended a business case before X5's C-level management (Video Analytics and Speech Technologies), then focused fully on Speech/NLP.
- Built and shipped an in-house system for phone dialogues with retail customers in the call center — the full stack developed internally with minimal contractor involvement; defended it for embedding into the enterprise architecture.
- Flagship: loyalty-card registration/replacement **by voice** with no human involvement, with one of the best conversion rates on the market — ~10,000 incoming calls/day, ~6,500 loyalty requests; **70%** solved without redirection to the call center.
- Shipped a WhatsApp support bot; grew the team to 5 (Dev/DevOps/DS); built an outbound-calling system for **NPS + CS** collection, with services coordinating outbound traffic per contact policies — hundreds of thousands of calls/day.
- **Point of Sale Inventory Management.** Built a stock-balance data showcase for the `Pyaterochka` subsidiary; revealed stocks worth several billion rubles; ensured smooth knowledge transfer to a dedicated internal IT-product team.

Dev/DS & PM/Analyst (hybrid) · Beeline (Big Data Department)

Sep 2015 – Apr 2017

Big Data division of a federal-level Russian digital provider running an industrial Hadoop cluster with petabytes of varying-quality data, focused on delivering business value on open-source on-prem Big Data infrastructure. Drove the division's activities, implemented ML-based solutions and adopted best practices in the delivery process. Stack — DEV/ARCH: `Hadoop`, `SPARK`, `SQL`, `Python`, `Java`, `Shell`.

- **Division workflow reorganization.** Identified and analyzed business processes for inefficiencies; adopted agile practices with support from HQ specialists in Amsterdam.
- **Client gender identification (85%+ accuracy).** Identified the most influential predictive features and prepared ETL specifications; trained a logit model on `SPARK`; automated the input-data ETL with a contractor — the **first** production-grade `SPARK`-based solution delivered in the Big Data department.
- **Churn prediction.** Built a `SPARK`-based ETL pipeline generating features for the churn-detection model.
- **Customer golden record.** Delivered a daily ETL process collecting varied information about Beeline's customers.

Developer/DevOps & Analyst (hybrid) · Accenture

Mar 2012 – Aug 2015

Global IT-consulting leader. Hybrid role (70% Dev/DevOps, 30% analysis): delivered modeling, analytics and data-processing pipelines; scalable fault-tolerant solutions and integration of diverse components; participated in internal R&D and customer-facing projects and prepared documentation & specs. Stack: `Python`, `Java`, `Shell`, `SQL`, `Informatica`, `Teradata`, `Hadoop`, `Anylogic`, `Photoscan`, `Linux`.

- **Automated Infrastructure Inspection via Drones (R&D).** Ran on-site requirements gathering with energy-sector clients; coordinated drone-flight operations with partners (aircraft-type UAVs, 1000 km range); managed the aerial-imagery processing pipeline (`Photoscan`, `Linux`) and worked with CV engineers to deploy infrastructure-defect detection algorithms.
- **Social-Media Lead Generation (top Russian bank).** Crawled 50M+ `VK` users with their core attributes and custom influence features; built a 10-node `Hadoop` cluster to process the crawled data.
- **E-Commerce Warehouse Simulation.** With retail experts, designed and implemented an `Anylogic` model that cut order-assembly time by **30%**.
- **Risk Data Mart for Banking Reserves.** Collected and clarified requirements; implemented the ETL process with `Informatica` + `Teradata`.

Junior Developer · Luxoft

Nov 2009 – Feb 2012

Multinational technology company providing software-development services and IT solutions. Participated in agile rituals (Scrum, Planning, Grooming); wrote tests, created and reviewed code, fixed bugs. Stack — DEV: `C`, `Java`, `Shell`.

- **ZigBee stack implementation for semiconductor manufacturers.** Consolidated C/Java knowledge; created a ZigBee protocol-stack simulator that accelerated test cycles; gained low-level programming experience working with boards/microcontrollers.

EDUCATION

Higher School of Economics — Bachelor

2010

Sociology — Analysis of Social Institutions. Graduation thesis: "Constructing the Mechanism of Trust towards Machines as Subjects of Social Relations".

ADDITIONAL EDUCATION & CERTIFICATES

- 2024-10 — Kubernetes — Complete Course on Kubernetes, [Udemy](#)
- 2018 — Business Transformation and Growth in the Age of New Technologies, [Skolkovo](#)
- 2016 — Data School — 9-month ML course, [Beeline](#)
- 2016 — Agile SW Development; Requirement Management in Agile projects, [ScrumTrek](#)
- 2013 — Mastering Innovation & Design Thinking, [MIT](#)
- 2012–2013 — Cloudera Certified Developer / Administrator / Specialist (Hadoop, HBase), Cloudera
- 2009–2010 — Java / Java EE; Visual C/C++, Specialist at Bauman MSTU

TECHNOLOGIES

Development [*nix OS](#) [C](#) [Java](#) [Python \(DEV\)](#) [Python \(DS\)](#) [Scala](#) [SQL](#) [Redis](#) [K8S](#)

Dev Tools [VS Code](#) [Claude Code](#) [Antigravity](#)

CI / CD [Gitlab](#) [Github](#) [Docker](#) [Docker Swarm](#) [Ansible](#)

Clouds [Terraform](#) [Yandex Cloud](#) [Digital Ocean](#) [AWS](#) [Runpod](#) [Hugging Face](#)

Other [SIP](#) [LLMs](#) [RASA](#)

LANGUAGES

Russian: Native speaker **English:** B2

AWARDS

- **Winner** — **Rasa 2025 Agent Building Challenge** — Won Rasa's 2025 Agent Building Challenge for conversational systems.