Michael Drozdovsky

Moscow, Russia

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Senior ML/Backend Engineer with experience in recommendation systems, search relevance, user behavior analysis, and large-scale ML services. Worked with content-based and similarity-based recommenders, relevance scoring (NDCG/CTR), information retrieval, fraud detection, and production-grade data systems. Full-cycle ML expertise: data ingestion, feature engineering, model training/evaluation, A/B testing, deployment and monitoring.

Tech Stack: Python, PyTorch, scikit-learn, Elasticsearch, ClickHouse, PostgreSQL, Redis, Kafka
Core Areas: Machine Learning, Recommender Systems, Information Retrieval, Distributed Systems, Microservice Architecture
Approaches: Content-based recommendations, similarity search, ranking models, metrics (NDCG/CTR/Precision@K), A/B frameworks

Work Experience

Lead Backend Developer
IT Bastion LLC (Russia), Feb 2025 — Sep 2025
Designed and developed the second-generation access-control interface for service providers. Led backend architecture and implementation. (Contract work)

Lead Backend Developer
Netology LLC (Russia), Jun 2022 — Dec 2024
Designed the architecture and launched a developer-training platform for isolated code execution, automatic verification and scoring. Oversaw backend design, sandbox environments and evaluation engine.

Senior ML Engineer
Avito Tech (Russia), Sep 2021 — Apr 2022
Developed internal tools for search quality assessment using ranking metrics (NDCG, CTR, Precision@K). Built and evaluated recommendation-quality models for the "Similar Listings" module based

on content similarity and user behavior signals. Worked with large-scale data pipelines and ML evaluation frameworks.

Senior Backend Engineer
Yandex LLC (Russia), Feb 2021 — Sep 2021
Developed backend for «Yandex.Practicum» public education platform: API services, tooling, test infrastructure, internal utilities, and code review processes.

Senior Backend Engineer
Skillholders LLC (Russia), May 2014 — Dec 2020
Led a development team building analytical and data-intelligence products (20+ successful projects):
– MyConomy — offline retail aggregation app with geolocation search
– Travelab — dynamic tour search engine and marketplace
– Pocket.DJ, personalized music recommendation platform
– EtherSurance — blockchain-based P2P insurance service
– Trood CIS — enterprise ERP platform

Senior Backend Engineer (Contract)
Absolutely No Nonsense Admin Ltd. (UK), Apr — Nov 2019
Built ML models for real-time fraud detection and remote identity verification (classification, feature engineering, streaming scoring) from initial designs to deployment in production environment

Backend Developer
Mail.Ru LLC (Russia), Oct 2012 — Mar 2014
Backend development of collaborative document-editing service «Documents@Mail.Ru»

Education

Bauman Moscow State Technical University,
Informatics & Computer Engineering

Academic Work:
– Semantic-Aware Information Retrieval System, 2010
– Machine Learning for Gamification in Multi-user Systems, 2013