IVAN MALIANOV

Senior Site Reliability Engineer (SRE) | Data Platforms

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Professional Summary

Data platform reliability engineer with 7+ years across technical support, software development and DevOps. Hands-on experience stabilizing telecom data pipelines with OpenShift/Kubernetes and Python automation, including AIOps MVPs for data-quality triage and log analysis.

Professional Experience

Beeline Kazakhstan — Data Platform Reliability Engineer

Sep 2024 — Present

Operate data middleware for a billing transformation serving 15M+ subscribers, with more than 500M incoming Kafka messages per day.

- Stabilized **24 Java CDC deployments** through JVM/GC tuning, OpenShift resource sizing and dataflow isolation; observed **2-3-week runs without recurring configuration-related failures or unplanned restarts** between scheduled deployments.
- Implemented PostgreSQL HA connectivity with Patroni, etcd and HAProxy, corrected ScyllaDB seed and replication-factor configuration, and validated failover and recovery scenarios.
- Built observability for all existing dataflows across **18 OpenShift services and 4 Jenkins job groups for HDFS**, using Kafka-derived delivery, throughput and backlog metrics, a production Rust exporter and Bash/curl connector checks.
- Estimated detection time improved from **1-6 hours via BI symptoms to 15-30 minutes**, and component localization from several hours to **20-40 minutes**. Created 15+ dashboards and migrated 25+, covering 500+ metric names/recording rules and 400+ alerts.
- Restored connectors and data flows and contributed to resolving approximately 300 defects through RCA and fix validation. Diagnosed Elasticsearch failures associated with an OpenShift CSI driver, applied a workaround and escalated to Red Hat support.
- Automated configuration corrections, storage cleanup, operational checks and deployment log collection with Python and Bash; supported release workflows in Jenkins and GitLab CI/CD.
- Rotated identified plaintext secrets and moved them to Jenkins credentials and Vault/OpenBao; migrated service-account SSH access to keys and helped remove shared/obsolete accounts.

Selected AIOps projects at Beeline

- **Data Quality Test-to-Incident Agent:** built a Python MVP matching 400+ tests with Jira history. Recommendations led to **40+ incidents created manually by specialists** and approximately 100 linked tickets. Estimated manual matching took 1-2 hours; reviewing agent-generated results now takes 10-15 minutes.
- **Log Pre-Analysis Agent:** designed the architecture and guided two developers on a read-only Python/LangGraph MVP with a custom MCP server. It searches Elasticsearch and Jenkins logs and suggests causes and next checks; piloted with four administrators on one production system.

Aitas KZ — DevOps Engineer

Feb 2023 — Sep 2024

- Migrated **20+ critical servers**, including Kafka, PostgreSQL, GitLab and Vault, from on-premises infrastructure to Yandex Cloud using Hystax, with no data loss and several hours of database downtime.
- Built GitLab CI/CD for Docker/Compose applications with automated tests, quality gates and security scans; automated deployments, backups and key management.
- Containerized Pentaho Community Edition to simplify upgrades; implemented Prometheus/Grafana monitoring for earlier issue detection and faster incident response.

SberTech — Python Developer

Nov 2021 — Jan 2023

- Built Python tooling for **200+ specialists and 400+ Hadoop clusters**, integrating Ambari/Ranger APIs. Added Celery task-existence checks, connect/read timeouts and retries with exponential backoff and jitter.
- Helped bring the service from MVP to production within one year. Automation reduced manually processed L2 requests by **40%** versus pre-implementation levels, according to ITSM statistics; cluster health checks enabled early intervention on incident risks.
- Mentored two interns who completed the program and received offers to join the team.

Divent — Branch Technical Manager, Junior Developer

Dec 2018 - Nov 2021

Managed technical support; built Python/Django media-processing services and C++/OpenCV stereo-vision software.

Technical Skills

Infrastructure: Kubernetes, OpenShift, Docker, Docker Compose, Linux, systemd, Ansible playbooks, Helm configuration, Yandex Cloud, Hystax.

Development: Python, Django, Bash, SQL, Celery, RabbitMQ, REST APIs, GitLab CI/CD, Jenkins, Rust (monitoring exporter).

Data systems: Apache Kafka, Debezium, PostgreSQL, ScyllaDB, Hadoop/HDFS, Spark, Patroni, etcd, HAProxy.

Observability: Prometheus, VictoriaMetrics, Grafana, Alertmanager, Netcool, ELK/EFK, dataflow monitoring.

Operations: incident response, RCA, production readiness, high availability, backup/restore, HashiCorp Vault, OpenBao, Jenkins credentials.

Applied AI: LangGraph, MCP, on-premises LLMs, agentic workflows, prompt design, Jira/Confluence integrations, AI coding agents.

Education

Moscow Power Engineering Institute

Master's degree, Robotics and Mechatronics | 2016 - 2018

School 21 / Ecole 42

Project-based training: C/C++, Python, Linux, Docker and networking | Nov 2018 - Jan 2022

Languages

English: C1 | **Russian:** native.