

ALEKSANDR KOLMAKOV — SENIOR BACKEND DEVELOPER

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SUMMARY

Senior backend engineer — 9yr designing distributed systems on AWS/GCP. Specialist in scalable APIs, microservices, enterprise auth (SSO/SAML, passkeys), CVE remediation, and sub-second latency architectures.

CORE SKILLS

- **Backend:** Python, FastAPI, Django, Flask
- **Data:** PostgreSQL, MySQL, Redis, ClickHouse, Snowflake, MongoDB, Neo4j
- **Cloud & Infra:** AWS (EC2/S3/SQS/Kinesis/ECS/ECR/CloudFormation), GCP (Dataflow/Cloud Storage), Docker, Kubernetes, Terraform
- **Messaging:** Kafka, RabbitMQ, Celery, Kinesis, Redpanda
- **Security & Auth:** enterprise SSO (WorkOS/SAML/OIDC), FIDO2/WebAuthn passkeys, CVE remediation (AWS Inspector), authorization design
- **Monitoring & CI:** Prometheus, Grafana, Loki, Pytest, GitLab CI/CD, GitHub Actions, Locust

EXPERIENCE

Senior Backend Engineer (B2B contract ends Oct 2026) | Termius | SF-based, remote | 2026

- Deleted 70M+ legacy rows and freed 140 GB on a live production MySQL database with zero downtime by engineering an adaptive-window Celery cleanup pipeline — kill-switch controlled, throughput-validated on a prod replica (~5k rows/s) before enabling in production
- Remediated 10 critical/high CVEs (incl. OpenSSL) across production ECR images via zero-downtime ECS redeloys; introduced an auditable security-dated image tagging convention traced to AWS Inspector findings
- Restored a broken Terraform deploy pipeline after GitHub Actions' Node deprecation blocked releases — root-caused two native-library failures and upgraded Terraform 0.14 → 1.12, unblocking the release train

Senior Backend Engineer | Helloworld | Porto, Portugal | 2024 – 2026

- Slashed firefighting backlog by 40% and achieved 4.85% CFR (change failure rate) by redesigning the development process: CI/CD, tracking, automated releases, transparent regression testing
- Engineered a monitoring/observability stack (Prometheus, Grafana, Loki, Phoenix Arize, OpenTelemetry), eliminating 6+ hours of monthly outages for 5k users
- Implemented an agentic application with MCP server support providing natural-language analytics; 40% user adoption for ad-hoc reporting, unlocking 10–12 senior developer hours per week

Senior Backend Developer | Sensemitter | Dubai, UAE | 2023 – 2024

- Re-architected a legacy batch system into a real-time streaming pipeline using GCP Dataflow & RabbitMQ, enabling low-latency processing for 3TB of video data daily
- Investigated, researched and fixed issues with 3D eye-gaze interpolation

Senior Backend Developer | Arloid LLC | Dubai, UAE | 2020 – 2023

- Architected a scalable FastAPI backend as a real-time simulation environment for reinforcement-learning models; automated infrastructure with CloudFormation, reducing monthly AWS costs by 30%
- Built a fault-detection backend (FastAPI, MongoDB) deploying ML models at 80% accuracy — a core, revenue-generating platform feature
- Led an 8-engineer team through end-to-end development of an AI SaaS platform on AWS; owned the architecture that delivered 12% energy reduction for clients

Backend Developer | Distillery | St. Petersburg, Russia | 2017 – 2020

- Engineered high-performance APIs in Django & Flask, achieving <0.3s latency for complex queries via a strategic PostgreSQL → Neo4j migration
- Designed a scalable media delivery backend on AWS (Kinesis, HLS), with download/stream start times under 1 second
- As the sole backend engineer in a 17-person team, took a legacy project to production: CI/CD, test coverage, Blue/Green deployments on AWS from scratch

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