ALEXANDER KUKLIN
Backend Developer
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Backend Developer with 5+ years of commercial experience in designing, developing, and maintaining microservices and high-load digital products; proficient in building scalable backend systems in Python and Go, with a focus on enhancing core user-facing features such as search, listings, and personalization; making data-driven decisions within e-commerce and digital platform environments, directly contributing to system stability, performance optimization, and scalability for platforms serving 20M+ users.

SKILLSET:
Backend Engineering, API Design and Integration, Databases and Storage, Service Design and Solution Architecture, High-load Scalability and Performance, Testing and Quality, CI/CD Pipelines and Build Automation, Cross-Functional Coordination, Incident Management and Stability Improvements, Technical Documentation.

TECHNOLOGIES
Backend: Python, Golang;
Databases/Services: PostgreSQL, RabbitMQ, Redis;
Cloud-Native Systems: AWS, Kubernetes, Docker, SOA, Grafana, ELK;
Tools: Jira, Confluence, Agile / Scrum, AI.

Domclick | Backend Developer **Sep 2023 – present**

Digital platform, PropTech, FinTech, 1000+ employees, 20 million customers, Moscow.

- Delivered, evolved, and operated 5 high-load backend platforms handling 1M+ daily requests for real estate and financial domains.
- Enabled platform scalability and reuse for 50+ internal systems and 15+ teams (Frontend, Backend, Devops, Product, BizDev).
- Increased backend reliability and operational efficiency (Python, Golang, PostgreSQL, RabbitMQ) across high-traffic production systems, for 20M users.
- Automated business workflows and compliance checks, reducing processing time by 21% and support load by 12%
- Mentored and onboarded 2 developers; supported the growth of 3 engineers through code reviews and technical guidance.

Project: Geo Data Platform

- Developed and maintained a high-load service for storing hierarchical geo-objects by improving high RPS latency by 12% and ensuring clean domain boundaries and maintainable code.
- Implemented an event-driven architecture for geo-object updates as a member of 6-engineer backend team, publishing change events to multiple downstream services through asynchronous pipelines using RabbitMQ.
- Optimized database queries for complex hierarchical lookups by using PostgreSQL, indexing strategies, and query plan analysis, resulting in a 10% reduction in query response time.
- Built geo-data validation and transformation pipelines with Pydantic and automated test suites, cutting error rates by 9% and boosting coverage by 8% to reduce regression risk by 4% during deployments.
- Migrated geo data and switched the data provider for 50+ platforms, ensuring zero downtime and feature parity.
- Collaborated on CI/CD pipelines by applying observability tooling (logs, metrics, tracing) and DevOps practices, contributing to a 7% reduction in debugging time.

Stack: Python, PostgreSQL (PostGIS), SQLAlchemy, Redis, RabbitMQ, FastAPI, REST API, JWT, Docker, Kubernetes, CI/CD, GIT.

Project: CRM Platform for Real Estate Mortgage Approvals

- Developed and maintained a client- and partner-facing CRM platform in a team of 10 (Product Manager, Backend and Frontend Developers) designed to automate and streamline the real estate approval workflow for mortgage lending.
- Introduced automated compliance checks and restrictions for 5 mortgage products and reduced mortgage application processing time by 21% and the number of support requests by 12% through implementation of automated document verification.
- Integrated 5 internal platform components: scoring engine, document-storage service, mortgage-rate provider, payment-verification flows.
- Co-deployed, monitored, automated distributed services in production with a team of platform engineers: infrastructure integration with feature-flag systems, centralized logging, and metrics pipelines.
- Overhauled legacy Python components, reducing technical debt and improving runtime efficiency by 9%.

Stack: Python, PostgreSQL, Redis, RabbitMQ, FastAPI, Sanic, REST API, JWT, Docker, Kubernetes, GIT.

Project: Real Estate Data Aggregation Platform

- Engineered integration between GeoService and the centralized real-estate data hub, enabling consistent master-data propagation to 15+ internal teams.
- Built automated test suites covering 85% of core domain logic for the centralized real-estate data system, enabling regression safety and refactoring.

Stack: Golang, PostgreSQL, RabbitMQ, REST API, JWT, Docker, Kubernetes, GIT.

Project: Scalable Image Processing & Storage Service (S3-Compatible)

- Engineered a high-load image storage and resizing service for real estate listings in a team of 6 engineers, handling 5-10M daily requests.
- Implemented opt-in WebP and AVIF support via bucket-level rules in an S3-compatible system, reducing image payload size by up to 40%.
- Implemented deep observability and analytics using Prometheus, Grafana, and Alertmanager, tracking resize options, clients, and traffic anomalies across 100% of requests, improved metrics design to ensure safe memory usage under high traffic.
- Implemented traffic anomaly alerts for the frontend resizer using Prometheus Alertmanager, enabling early detection of sudden traffic spikes and decreasing incident response time by 66%.
- Co-initiated a fix for image lifecycle management, improving system reliability and performance, cutting memory consumption in half, and safely lowering container memory limits.

Stack: Golang, PostgreSQL, S3-compatible storage, RabbitMQ, REST API, JWT, Docker, Kubernetes, GIT.

KB Strelka | Backend Developer **Jul 2021 – Sep 2023**

Consulting, Smart Cities, Data & Analytics, 350+ employees

- Developed SaaS platform (Feedback Analytics) processing up to 50k+ feedback messages per day, ensuring consistent service boundaries, reliability, and predictable scaling behavior in a team of 6 devs.
- Engineered chatbot services (internal operations bot, customer bot) handling up to 20k monthly conversations, integrating with Telegram API, VK API, and internal event pipelines.
- Designed backend components for 5 public digital platforms, processing 100k+ of user submissions.
- Developed automated unit and component tests, increasing test coverage to 70% across core services using pytest.
- Collaborated with the DS team to develop a node-graph dialog engine handling 10+ node types, optimizing dialogue flow evaluation and context resolution.

Stack: Python, PostgreSQL, Sanic, JWT, RabbitMQ, GIT, GraphQL, Pandas, NumPy, Docker, REST API.

EDUCATION:

Certification: Yandex.Practicum - Advanced Go Developer (2024);

Certification: Yandex.Practicum - Data Science Specialist (2022);

Certification: Yandex.Practicum - Python Backend Developer (2021);

BMSTU - Specialist Degree in Engineering of Industrial Technologies.