

Alexander Kuklin

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Summary

A Python/Golang developer with four years of experience, I am proud to build microservices for high-load solutions that industry leaders find robust enough. I design and implement services using clean architecture, REST APIs, and event-driven patterns. I have hands-on experience with relational and spatial databases (PostgreSQL/PostGIS), caching (Redis), message brokers and async messaging (RabbitMQ). Comfortable with containerization and orchestration (Docker, Kubernetes), CI/CD, observability (Prometheus, Grafana, ELK).

Middle Backend Developer, Domclick, domclick.ru

Sep 2023 – present

Developed and maintained platform services (approximately 12 services in total) related to geographic data and real estate objects.

Key projects:

- Geo Service (Python):
 - Developed and maintained a service for storing hierarchical geographic data (regions, cities, districts, streets, buildings, etc.).
 - Implemented event publishing for geographic data changes to notify multiple consumers asynchronously (other platform services).
 - Added address geocoding and suggestion functionality.
- Real Estate Objects Service (Golang):
 - Enhanced a centralized data store for real estate objects (apartments, new developments, commercial properties). Service based on Clean Architecture.
 - Consolidated data from multiple sources with priority handling and conflict resolution.
 - Integrated the service with the Geo Service and other platform components.
- S3 File Storage Interaction Service (Golang):
 - Contributed to a pipeline for processing uploaded images: automatic encoding into specified formats (WebP, JPEG), resizing to various resolutions (previews, cards, detailed views) based on configuration.

Tech Stack: Python 3, Golang, PostgreSQL (PostGIS), Redis, RabbitMQ, FastAPI, Docker, Kubernetes, Git.

Junior - Middle Backend Developer, KB Strelka, strelka-kb.com

Jul 2021 – Sep 2023

- Developed various microservices.
- Designed and implemented APIs for internal services.
- Built chatbot services, developed an internal chatbot and a chatbot for a restaurant.
- Contributed to the "Chego Hochet Gorod" (chego-hochet-gorod.com), "5 Steps for Cities", and "Digital Master Plan of Baikal" projects.

Main project : "Chego Hochet Gorod"— a SaaS-platform for collecting and processing text-based customer feedback for businesses. The platform was built on a microservices architecture, with a dedicated dialogue microservice that standardized interactions with various data sources under a unified dialogue pattern. In this pattern, every exchange was treated as a dialogue, and the unit of exchange and context was called a "node." Nodes were the "building blocks" of the dialogue, defining its direction and type.

Tech Stack: Python 3, PostgreSQL, Sanic, JWT, RabbitMQ, AsyncIO, Git, GraphQL, Pandas, NumPy, Docker.

Other professional experience

Aug 2009 – Mar 2021

Technical and managerial roles in manufacturing and sales (design engineer, project manager, etc.).

Education

- Mytischki Branch of Bauman Moscow State Technical University, former MSFU (2012)
 - Master degree in Timber Engineering.
- Yandex.Practicum (leading russian online education platform)
 - Advanced Go Developer (2024), Data Science Specialist (2022), Python Backend Developer (2021).

Languages

English (upper intermediate), Spanish (beginner), Russian (native).