ALEKSANDR RIBINSKI

Python Backend developer, 6+ years experience
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ABOUT

I am a Python Backend Developer with 6+ years of commercial experience building distributed services and improving production performance. My key experience includes:

- End-to-end development and maintenance of a platform of varying complexity (FinTech, EdTech, high-load, microservices, event-driven, LLM integration)
- Building efficient backend systems for B2B analytics systems
- Deep expertise with PostgreSQL including optimization and API design

SKILLS

Main: Python, FastAPI, Django, PostgreSQL, Redis, Docker, Linux, Git, SQLAlchemy, Pytest, REST API, asyncio, RabbitMQ, Celery, Kubernetes, AWS, GraphQL, gRPC, MySQL, MongoDB, Alembic, Nginx, GitLab, BitBacket, GitLab CI, Prometheus, Grafana, Poetry, Elasticsearch, Kafka, Flask, DRF, WebSockets, Azure, Terraform, Ansible, Jenkins, Docker, Podman, Docker Compose, Cassandra, Selenium, Postman, Insomnia, Bash, Pandas, NumPy, langchain
Other: HTML, CSS, JavaSctipt, go, c++

EXPERIENCE

SBERBANK: 10/2023 - 12/2025, 2+ YEAR

Product: Internal services of the bank

Achievements:

- Created 8 microservices of varying complexity using gRPC, RestAPI, GraphQL and EDD (Kafka)
- Implemented 6 Retrieval-Augmented Generation services for processing corporate knowledge, thereby saving 140+ man hours per month by automating information search
- Increased data extraction precision 0.34 to 0.82 through embedding optimization, customer satisfaction (CSAT) by 35 points
- Implemented and standardized layered architecture in 4 teams (25+ developers), thereby reducing the start time on new features by half and unified 12 disparate codebases for a common architecture, increased the speed of development

Technologies: Python, Go, FastAPI, gRPC, GraphQL, Grafana, Helm, LangChain, LangGraph, PostgreSQL, BitBacket, Jenkins, Docker, Kubernetes, OpenShift, MongoDB, GreenPlum, Redis, Kafka, smtp, OpenSearch, clickhouse

VK: 12/2020 - 10/2023, 2 YEARS 8 MONTH

Product: Tetrika

An online platform for preparing for the Unified State Exam, and improving school performance. More than 110,000 students study on the platform. The project's revenue for 2024 is 46 million dollars

Achievements:

- Migrated from pydantic v1 to pydantic v2 for the billing domain of teachers and students, which increased productivity, improved the type security of the domain and made it possible to use the tools of the second version of paydentic.
- Initiated the implementation of coverage in the billing domain of teachers and students, which made it possible to detect "dead code", "blind spots", and monitor test coverage.
- Initiated the implementation of running tests with CI pipeline, which made it possible to quickly detect errors.
- Covered the billing domain of teachers and students with integration and unit tests, reaching coverage from 44 to 83%, which accelerated the verification of tasks at the QA stage and allowed the safe implementation of new functions, reducing the risk to existing functionality
- Initiated and transferred the bonus accrual service to Decimal, which improved compatibility with accounting requirements and increased the accuracy of calculating bonuses by the teacher, as well as facilitated code refactoring and the introduction of new requirements.
- Onboarded three new employees
- Initiated the implementation of ADR, which allowed to preserve the context of decisions, freed the team from the need to rely on a specific person to obtain key data

Python, Tornado, FastAPI, PostgreSQL, Docker, Kubernetes, Redis, SQLAlchemy, gRPC, Kafka, aiohttp, pyjwt, bcrypt, pandas, numpy, Cassandra, RabbitMQ, Celery, MongoDB, GraphQL, WebSockets, Aioboto3, S3, httpx, Twilio, aiosmtplib

ROSTEC: 09/2019 - 12/2020, 1 YEARS 3 MONTH

Product: Automatic calculation of UAV characteristics

The platform helps designers at the design stage, automatically calculates the key parameters of the UAV. Integration with CAD systems makes it easy to transfer data, speeding up processes and making development more efficient

Achievements:

- Accelerated the calculation of the prototype's take-off and landing characteristics from 10 to 4 seconds by optimizing the basic formulas
- The test coverage of the wing and tail geometry calculation module has increased from 47 to 81 percent
- Configured Grafana to monitor key project metrics, resulting in reduced incident response time

- Initiated and implemented caching of frequently requested parameters using redis, which reduced the load on the database and response time
- Initiated and implemented automatic code validation via flake8, isort, and mypy in the GitLab/CI pipeline, which standardized the project's code style and reduced the time for code review.

Technologies: Python, Django, PostgreSQL, Redis, Celery, RabbitMQ, Linux, Bash, Marshmallow, Docker, requests, pandas, mathplotlib, numpy, gRPC

EDUCATION

Moscow Aviation Institute, Moscow (Russia) – BACHELOR, 2018 - 2022
Information and computer science

ADDTIONAL

My hobby is building a personal brand by teaching Python Backend courses at my university (4+ years), presenting tech talks at conferences