

Roman Bazhanov

Senior Python Software Engineer

Amsterdam, the Netherlands • bazhanovr@gmail.com

PROFESSIONAL SUMMARY

Experienced Python Software Engineer with a strong background in developing asynchronous API services and ETL processes. Proven ability in designing scalable solutions and improving existing systems. Extensive experience building core components for industry leaders such as Shell and VK. Demonstrated success in team collaboration, code review, and development best practices.

TOOLS AND TECHNOLOGIES

Languages and frameworks: Python, FastAPI, Asyncio, Dagster, Celery, PyTest

Databases and data tools: SQL, PostgreSQL, MongoDB, Redis, Red Panda, Apache Kafka, RabbitMQ, Elasticsearch

Infrastructure: Docker, Docker Compose, Kubernetes, Git, GitHub Actions, AWS, Linux

Design and practices: Microservice architecture, System Design, OOP, RESTful, API, Domain Driven Design, Data integration, Web application development, Code quality, Unit testing, Integration testing, CI/CD

Languages: English, Russian

PROFESSIONAL EXPERIENCE

Shell

Amsterdam, the Netherlands

Senior software engineer contractor

Nov 2022- Jul 2024

Shell is a multinational oil and gas company.

Role and team: Backend engineer in a cross-functional product team of 14 people.

Responsibilities:

- Design and development ETLs and API services using Python (3.9, 3.11), Dagster, FastAPI, RedPanda, AWS, Docker, K8s, MongoDB, PostgreSQL.
- Unit and integration testing using PyTest, Docker Compose, GitHub Actions
- Legacy code maintenance
- Creating documentation using Confluence and UML
- Analyzing business requirements, collaboration with business users
- Team activities: code review, demo, planning, estimation, retrospective
- New team members onboarding

Achievements

- Energy Price Calculation Tool project (calculation backend)
 - Created multiple ETLs for data integration with internal and 3rd party systems
 - Refactored and prepared for go-live existing proof-of-concept calculation tool
 - Designed and implemented a new calculation tool from scratch, enabling an automated calculation procedure affecting thousands b2b clients
 - Created CRUD API for price calculation management
- Index Price integration project
 - Created ETLs for 3rd party sourced data to be used across multiple teams.

- Introduced and successfully implemented Python development best practices across team's projects: code review, poetry, black, type annotations checks within CI/CD pipelines, etc, enabling faster bug fixes and feature delivery.

InPlat Technologies

Senior software engineer

Moscow, Russia

JAN 2020 - Nov 2022

InPlat Technologies is a financial transactions processing company within VK group, handling payments for its clients (VK Pay, Megafon, Aliexpress Russia and others)

Role and team: Backend engineer in a data processing team of 5 people.

Responsibilities:

- Design and development of asynchronous microservices with Python, using Tornado, FastAPI, Aiohttp, Celery, PostgreSQL, Elasticsearch, Apache Kafka, Redis, Docker.
- Test coverage (unit and integration testing) using PyTest
- Legacy code maintenance
- System design and analysis
- Team activities: code review, demo, planning, estimation, retrospective

Achievements:

- Anti-fraud decision making system project:
 - Designed and implemented a new approach for anti-fraud decision making systems development (from initial analysis to production), drastically improving time to market, allowing business to have quicker response to new fraud methods.
 - Developed 40+ specialized antifraud modules.
- Integration with VKPay card payment system
 - Designed and implemented a highly maintainable data transformation system.
- Configurable decision making platform
 - Designed and implemented a configurable decision making platform, featuring custom DSL, enabling business analysts to build anti-fraud rules without involving engineers.

GOSNIIAS

Software engineer

Moscow, Russia

JAN 2015- Jan 2020

GOSNIIAS is an aviation systems research center.

Responsibilities:

- Desktop applications development using C++ and Python (scipy, pandas) for data visualization and mathematical models analysis.
- Embedded software development using C++
- Creating documentation

Perviy bit

Software engineer

Moscow, Russia

SEP 2013- Dec 2014

Developed enterprise resource planning systems using 1C:Enterprise (business automation software)

EDUCATION

Moscow Aviation Institute

Integrated intellectual aircraft systems Specialist degree

Moscow, Russia

2012-2018

Moscow Aviation Institute

Statistics and probability theory in aircraft control systems course

Moscow, Russia

2017

Moscow Aviation Institute

Scientific calculations and data visualization with Python course

Moscow Institute of Physics and Technology

Scientific calculations and data visualization with Python course

Moscow, Russia

2018

Moscow, Russia

2019