# Shamil Abdulaev

Systems & Python Infrastructure Engineer · Saint Petersburg

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Systems and distributed platforms engineer with 4 years of experience architecting high-throughput backend infrastructure, asynchronous engines (Litestar, Faust), and Go microservices. Core contributor to foundational open-source runtimes: 39+ merged PRs to CPython, 12 accepted patches to glibc, and 10 commits to SQLAlchemy. Proven expertise in architecting isolated multi-tenant PaaS, slashing deployment cycles by 90%, reducing sub-system p95 latency by 56%, and engineering enterprise-grade MCP servers for LLM-agent orchestration.

## Core Open-Source Contributions

Improved core global runtimes through 39+ merged PRs to CPython and 12 accepted patches to the foundational glibc system library, resolving critical memory safety anomalies, free-threading data races, and JIT compiler issues while optimizing low-level system calls and internal data structures.

python/cpython — PR: 39 merged, 2 open · Issues: 31 completed, 16 open
glibc — Patches: 12 committed, 5 open · Bug reports: 2 fixed, 5 open
python/typeshed — PR: 10 merged
sqlalchemy/sqlalchemy — Commits: 10 committed · Issues: 6 completed, 1 open
open-webui/open-webui — PR: 8 merged · Issues: 6 completed

## Experience

Python Developer, Kartochka (now Omnium)
Nov 2023 — Nov 2026 · 3 yrs 1 mo

- Architected a multi-tenant PaaS platform for dynamic orchestration and isolation of customer environments using Kubernetes and a custom control plane, cutting enterprise client onboarding from 48 hours to 12 minutes and reducing server costs by 42% through dense node utilization while maintaining a 99.95% SLA across 60+ isolated instances.
- Decomposed a distributed platform monolith into domain services and parallelized CI/CD build pipelines, reducing release delivery cycles from 3.5 hours to 15 minutes and deployment failure rates by 88%, saving the product engineering team over 160 hours monthly.
- Engineered a fault-tolerant enterprise CRM integration and synchronization platform with predictive Redis Token Bucket throttling and a custom production-ready MCP (Model Context Protocol) server, enabling autonomous LLM agents to safely access 500,000+ daily CRM entities in real time with zero API rate-limit violations.
- Built an automated unstructured document processing pipeline powered by LLMs with strict schema validation and semantic caching, processing 25,000+ pages monthly at 98.4% accuracy and reducing incoming deal approval time from 2 days to 4 minutes.

Full Stack Developer, Orbitsoft
Mar — Aug 2023 · 6 mo

- Modernized the core enterprise platform (70K+ LOC) with a zero-downtime migration from Django 3.2 to 4.2 LTS, extracting monolithic logic into a decoupled service layer and expanding test coverage from 28% to 76% without regressions in the transactional pipeline.
- Designed a high-performance Linux microservice in Go to verify cryptographic signatures and X.509 certificates of Windows PE binaries (Authenticode), validating 2,500+ files per second with p99 latency under 12 ms and minimal memory footprint.

Python Developer, Escape Tech
Jan 2022 — Mar 2023 · 1 yr 3 mo

- Built a scalable distributed streaming data collection and normalization pipeline (Kafka, Faust, Playwright) across 150+ dynamic e-commerce platforms, scaling daily throughput to 18M SKUs at a 99.6% extraction success rate while cutting proxy infrastructure costs by 38%.
- Optimized a high-load data ingestion gateway by migrating from synchronous Django to an asynchronous Litestar and asyncpg stack, reducing p95 latency by 56% (from 420 ms to 185 ms) and scaling node throughput from 1,200 to 4,500 RPS while cutting compute resource usage in half.

## Languages

Russian — native · English — B1